

INTSUP VALVE

**YOUR SOURCE FOR THE
WORLD!**

In 1993, IntSup Valves was established as a resource for hard-to-find valves. Our reputation grew rapidly as members of the industry came to rely on our successful and timely acquisition of goods that had previously been difficult (or impossible) to obtain.

In 1996, we again responded to our customers' need-this time for exotic valves-by becoming an independent distributor of Dresser/Cooper supplies. Subsequently, we have added Kitz, Bonney Forge, the Walworth Company, William Powell Company and the Flowseal and Centerline Butterfly valve products to our inventory.

Our inventory is solid, however, from time to time we still receive requests for hard-to-find items. The same spirit that pioneered IntSup Valves remains as alive and well today as it did in 1993. We remember our roots and enjoy a good challenge-in other words, if we don't have it, we'll *find* it.

FLOWSEAL / CENTERLINE

WCB, 316SS, DUCTILE IRON, CAST IRON
CLASS 150# THRU 600# HIGH PERFORMANCE BUTTERFLY VALVES
METAL AND SOFT SEATED
STANDARD AND FIRESAFE

KITZ

WCB, LCC, 316SS, 316L, 304SS, 347SS, C5, C6, C9, C12,
316SS NACE TRIM, MONEL NACE TRIM, FHF NACE TRIM
CLASS 150# THRU 2500#, PRESSURE SEAL & BOLTED BONNET GATE, GLOBE, &
CHECK VALVES. METAL & SOFT SEATED BALL VALVES. CRYOGENIC SERVICE

COOPER-DRESSER

A20, MONEL, INCONEL, NICKEL, HASTELLOY B & C, TITANIUM
EXOTIC ALLOY VALVES-CLASS 150# THRU 1500# BALL, GATE, GLOBE & CHECK
VALVES. THREADED, SOCKETWELD, & FLANGED.

BONNEY FORGE

A105, LF2, F316L, F321SS, F347SS, F5, F9, F11, F22, F91 & A20
WITH MONEL/NACE, 316SS/NACE, & FULL STELLITE TRIMS.
FORGED STEEL VALVES-CLASS 150#, 300#, 600#, 800#, 1500#, 1690#, 2500#, & 2680#
GATE, GLOBE, & CHECK VALVES

WALWORTH CAST & FORGED STEEL

WCB, C5, C6, C12, 316SS NACE TRIM, MONEL/NACE TRIM
CLASS 150# THRU 1500# GATE, GLOBE & CHECK VALVES.
A105, F316SS, F316L, F5, F11, MONEL/NACE TRIM, 316/NACE TRIM & FHF
CLASS 800#, 1500#, 2500#, GATE, GLOBE, & CHECK VALVES

POWELL

WCB, 316L, 316SS, A20, C5, C6, C9, C12, C12A
1/4" -24", CLASS 150#, 200#, 300#, 600#, 900#, 1500#, 2500#
PRESSURE SEAL AND BOLTED BONNET GATE, GLOBE AND CHECK VALVES.



INTERNATIONAL SUPPLIERS
INCORPORATED

P O Box 37168
Houston, Texas 77237
Phone: 713 981-8750
Fax: 713 981-5227
Email: Sales@IntSup.com

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INTSUP VALVE

FLOWSEAL VALVES

FLOWSEAL

Flowseal Valves

Flowseal high performance butterfly valves are available in sizes 2" through 48" in ANSI pressures classes 150, 300 and 600 and with a diverse range of actuation options.

Flowseal is a leading provider of soft seal, metal seat and fire-safe high performance butterfly valves. Our products are manufactured under and ISO 9001 Quality Assurance Program that ensures each valve we produce meets or exceeds your exacting application requirements.

Flowseal high performance butterfly valves are a standard in many industries including heating, ventilating and air conditioning, power generation, hydrocarbon processing, water and waste water treatment, and marine and commercial shipbuilding. Our products are also installed in applications as diverse as food and beverage processing, snowmaking and pulp and paper production. Configurations are available for harsh conditions as well as applications requiring normal pressure and temperature ratings.

As part of Crane Valve Group, Flowseal high performance butterfly valves are backed by the resources and experience of one of the world's largest valve producers with a delivery and quality track record that is unparalleled in the industries we serve.

Valve line includes:

Soft Seat

The Flowseal Soft Seat valve provides a bi-directional bubble tight shutoff (zero leakage) by the use of a patented seat. This unique seat design creates a self-energized seal in vacuum-to-low pressure applications.

Under higher pressures conditions, the seat is also designed to permit, confine and direct movement of the soft seat against the the disc edge, up to the full ANSI Class 150, 300 and 600 Cold working Pressures.

The Soft Seat is designed for high services with minimal wear and low torque. Seat replacement is a simple operation, requiring no special tools.

- Sizes 2" - 48"
- Wafer Body and Lug Body Styles
- Available in ANSI Class 150, Class 300 and Class 600
- Electric Actuators, Pneumatic Actuators, or Gear Actuators and Manual Operators Available



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INTSUP VALVE

FLOWSEAL VALVES

Metal Seat

The Flowseal metal-to-metal seat high performance butterfly valve incorporates an Inconel seat for higher tensile strength, a 300 series stainless steel back-up ring in the seat cavity for axial seat support, and a disc that is case hardened by nitriding.

The Inconel seat, by its dynamic and flexible design, applies enough force per linear inch against the disc edge (Rockwell Hardness of C66 to C70) to obtain an optimum sealing characteristic while controlling the loads between the metal surfaces.

The Flowseal metal-to-metal seat valve is utilized for temperatures up to 900°F, in compliance with ANSI B16.34 pressure/temperature specifications. Leakage is rated at Class IV per ANSI FCI 70-2.

- Sizes 2" - 48"
- Wafer Body and Lug Body Style
- Available in ANSI Class 150, Class 300, Class 600
- Electric Actuators, Pneumatic Actuators, or Gear Actuators and Manual Operators Available



Fire Flow Valves

Fire-Safe Resilient Seated Butterfly Valves

The Flowseal Fire-Flow™ high performance butterfly valve (HPBFV) is a fire-safe, soft seat quarter turn valve. The Fire-Flow™ design incorporates two patented seats which function together to seal off pipeline flow. In normal operation, the soft seal provides a bi-directional "bubble tight" shutoff (zero leakage); the metal seat provides bi-directional shutoff in the event of a fire, in conformance to industry fire-safe requirements.

With little or no pressure, the Fire-Flow seat creates a self-energized seal against the disc. Higher line pressures act on the geometry of both seats to dynamically load them against the disc, creating higher sealing forces in either direction.

The Fire-Flow™ metal seat is made of Inconel material which is shaped by a proprietary hydroforming process into its unique, patented design. Stainless steel outer bearings are included for post-fire disc and shaft alignment. Fireproof packing is used to prevent external shaft leakage.

- Sizes 2" - 48"
- Wafer Body and Lug Body Style
- Available in ANSI Class 150, Class 300, Class 600
- Electric Actuators, Pneumatic Actuators, or Gear Actuators and Manual Operators Available



P O Box 37168 Houston, Texas 77237 USA

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Houston, Texas 77237
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INTSUP VALVE

CENTER LINE VALVES



Center Line Valves

Center Line has been a market leader in quarter-turn products for over 40 years. During this time, we have earned the reputation as a supplier of competitively priced valves of superior quality that exceed industry requirements and customer expectations.

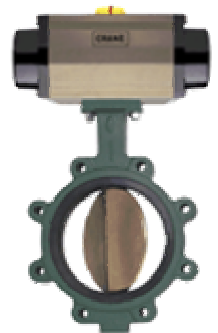
We are committed to providing solutions that meet a wide range of applications and requirements. We continually improve our product line by introducing new products and enhancing existing designs, providing our customers with a unique marketplace advantage.

Our complete line of resilient seated butterfly valves provides you with the reliability you need, backed by the guarantee that comes with using valves designed and produced in company-owned manufacturing facilities.

Valve line includes:

Series 200

- Available in sizes 2" to 48".
- Available in Wafer or Lug style body (2' to 30").
- Full flange style body for 36" to 48" valves.
Pressure ratings for tight shut-off at temperatures up to the maximum limit of the seat material:
2" to 12" - 200 psi, 125 psi for PTFE seat.
14" to 48" - 150 psi.
- Ideal for on-off or throttling services.
- Designed to comply with MSS SP-67.
- Compatible with ANSI 125/150 flanges.
- Valves 2" to 20" meet the intent and have passed the AWWA C-504-87 Section 5 proof of design tests.
- Type approval certification from ABS for marine applications (2" to 14").
Bi-directional dead-end capability to 200 psi (2" to 12") and 150 psi (14" to 24") is available.



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INTSUP VALVE

CENTER LINE VALVES

Series 225

- Series 225 utilizes the same proven design features as our Series 200 but is rated to 285 psi.
- Available in sizes 2" to 24".
- Pressure Rating: 285 psi at 100°F. Pressure/Temperature rating above 100°F corresponds to ANSI B16.5 Class 150 for steel flanges.
- Available in Wafer or Lug style body.
- Available in ANSI Class 300 Lug Body bolt pattern (2"-12").
- Ideal for on-off or throttling services.
- Compatible with ANSI B16.1 Class 125 (Iron) and ANSI B16.5 Class 150 (Steel) flanges or optional Class 300 (Steel) Lug only.
Bi-directional dead-end capability to 200 psi (2" to 12") and 150 psi (14" to 24") is available.



Series 250

- The Center Line Series 250 utilizes the same proven design features as our Series 225 but is supplied with either a carbon steel (standard) or 316 stainless steel body. Both are rated to 285 psi.
- Available in sizes 2" to 24".
- Pressure Rating: 285 psi at 100°F. Pressure/Temperature rating above 100°F corresponds to ANSI B16.5 Class 150.
- Available in Wafer or Lug style body.
- Ideal for on-off or throttling services.
- Compatible with ANSI B16.1 Class 125 (Iron) and ANSI B16.5 Class 150 (Steel) flanges.
Bi-directional dead-end capability to 200 psi (2" to 12") and 150 psi (14" to 24") is available.



Series 300

- Stub shaft design allows the disc to float within the flow-way increasing cycle life.
- Disc design achieves maximum flow by eliminating the "through shaft" and external disc fasteners.
- Available in sizes 2" to 12".
- Available in Wafer or Lug style body.
- Pressure ratings for tight shutoff at temperatures up to the maximum limit of the seat material: 2" to 12" - 200 psi. 125 psi for PTFE seat.
- Ideal for on-off or throttling services.
- Designed to comply with MSS SP-67 and API 609.
- Compatible with ANSI 125/150 flanges.
Bi-directional dead-end capability to 200 psi.



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INTSUP VALVE

KITZ VALVES

KITZ

Kitz USA

Kitz USA is a wholly owned subsidiary of Kitz Corporation, a world-wide leader in the production of valves. Kitz is committed to providing the highest quality product at the lowest cost possible. Manufacturing plants throughout the world ensure a continuous supply of product. By employing some of the most sophisticated manufacturing processes in the world, Kitz has built a reputation of high quality, low maintenance valve products. They produce gate, globe, check, ball, and butterfly valves in bronze, iron, steel, chrome and stainless steel alloys.

Cast Steel

Cast Carbon and Low Alloy Steel Valves
ASME Class 150 / 300 / 600 / 900 / 1500 / 2500
Gate, Globe and Check Valves, Bolted Bonnet Design

Stainless Steel

Stainless and High Alloy Steel Valves
JIS K / 10K / 20K
ASME Class 150 / 300 / 600 / 900 / 1500
Gate, Globe and Check Valves

Direct Seal™

Direct Seal Valves
Bolted Bonnet & Pressure Seal

Bronze & Iron

Bronze and Iron Valves
Including 13 CR. Trimmed
200 WOG Stainless
Valves and Strainers

Kitz Ball Valves

Floating Ball
Steel Ball Valves
Floating Ball Design

Industrial Threaded Ball Valves

Carbon & Stainless Steel

Flanged 3-Way, 4-Seated Ball Valves

Class 150
L-Port (150UTB4LAM 1/2" - 4", 150UTR4LAM 6" - 8")
T-Port (150UTB4TAM 1/2" - 4", 150UTR4TAM 6" - 8")



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INTSUP VALVE

KITZ VALVES

Flanged 3-Way, 2-Seated Ball Valves

Class 150

L-Port (150UTB4LAM 1" - 4", 150UTR4LAM 6" - 8")

T-Port (150UTB4TAM 1" - 4", 150UTR4TAM 6" - 8")

Pocketless Ball Valve

Class 150 Flanged full Port

316 Stainless Steel 1/2" - 8"

Figure Number 150UTBPM

C-Series

Pneumatic Actuators with Compact Ball Valves

Metal / Carbon

High Performance Steel Ball Valves

Service Temperature: 450°C (842°F)

Unconditional Firesafe Provision

Kitz V-Port Valves

V-Port® Quarter-Turn Control Valves

JIS 10K - 20K / ASME Class 150 - 300

Corrosion Resistant Bodies and Trims



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INTSUP VALVE

DRESSER / COOPER VALVES

COOPER

TEXSTEAM, INC.

Highest Quality: Since 1934, when the Cooper foundry developed the first successful technique to pour 304 stainless steel, we have used our experience and skill to continually refine and improve our product line. The production of highest quality stainless steel and exotic alloy valves today requires a combination of advanced design engineering, metallurgical science, technical know-how and rigid quality control. Cooper valve patterns have been continually refined, hand-in-hand with foundry technology to produce the finest quality castings-whether they be stainless steel or high alloy steel-available in today's market. All of these requirements are to be found in the day-to-day production of Cooper stainless steel and exotic alloy industrial valves.

Cooper manufactures a complete line of ball, gate, globe and check valves whether they are small diameter investment castings or large diameter sand castings, sizes 1/2" to 24", ANSI Class 150 thru 1500, in stainless or high alloy, or special design upon application. Cooper valves are manufactured to the applicable sections of ANSI and API standards and are in use in almost every corrosive application today.

Complete Alloy Coverage*

317/A744 GR. CG8M
317L/A744 GR. CG3M
347/A744 GR. CF8C
Alloy 20/A744 GR. CN7M
CD4MCU/A744
Inconel 625
Ferrallium 255
Duplex 2205 CD3MN
Monel/A494 GR. M35-1
Nickel/A494 GR. CZ100
Inconel/A494 GR. CY40-CL 1 & 2
Incoloy 800/A351 CTI 5C
Hastelloy B/A494 GR. N12MV
Hastelloy C/A494 GR. CW12MW
Titanium/B367 -69 GR. C3
Zirconium/B752 GR. 702C & 705C
Avesta-2545MO/A351 CK3MCUN

*Common alloys shown - others available on special order



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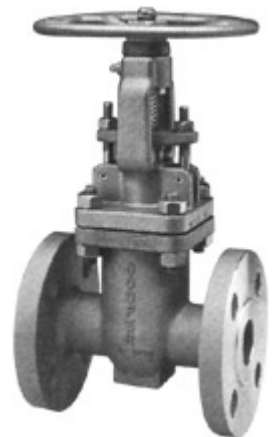
INTSUP VALVE

DRESSER / COOPER VALVES

Dresser/Cooper Gate Valves

Standard Features

- Stainless steel bolting
 - 400 Series stainless steel bushing
 - Swing-away packing gland eye bolts
 - Extra deep stuffing box
 - Teflon** cup and cone packing
 - Fully contained Teflon** gasket
 - ELC grade bodies on screwed and weld end valves
 - Exceptionally high casting quality
 - All valves hydrostatically tested to API 598
 - All valves serialized-full traceability of materials
 - Flexible manufacturing facility - widest choice of special applications
 - Cooper valves are manufactured entirely in the U.S.A. to the standards of ANSI, MSS, ASME, and ASTM. Texsteam Inc. is registered ISO 9001.
- **Teflon is a registered trademark of E.I. DuPont de Nemours Company



Specifications

- Sizes 1/2" thru 24"
 - Pressures: Ansi Class 150, 300, 600, 900 and 1500
 - Ends: flanged, threaded, socketweld and buttweld
 - Materials: cast SS and exotic alloy
- Design: ANSI B16.34 and B16.10

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P O Box 37168
Houston, Texas 77237
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INTSUP VALVE

DRESSER / COOPER VALVES

Dresser/Cooper Globe Valves

Standard Features

- Stainless steel bolting
 - 400 Series stainless steel bushing
 - Swing-away packing gland eye bolts
 - Extra deep stuffing box
 - Teflon** cup and cone packing
 - Fully contained Teflon** gasket
 - ELC grade bodies on screwed and weld end valves
 - Exceptionally high casting quality
 - All valves hydrostatically tested to API 598
 - All valves serialized-full traceability of materials
 - Flexible manufacturing facility - widest choice of special applications
 - Cooper valves are manufactured entirely in the U.S.A. to the standards of ANSI, MSS, ASME, and ASTM. Texsteam Inc. is registered ISO 9001.
- **Teflon is a registered trademark of E.I. DuPont de Nemours Company



Specifications

- Sizes 1/2" thru 8"
 - Pressures: Ansi Class 150, 300, 600 and 900
 - Ends: flanged, threaded, socketweld and buttweld
 - Materials: cast SS and exotic alloy
- Design: ANSI B16.34 and B16.10

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INTSUP VALVE

DRESSER / COOPER VALVES

Dresser/Cooper Check Valves

The purpose of a check valve is to prevent the reversal of flow in a flow line. It is suitable for most media and temperature ranges.

Swing Check Valve Standard Features

- Stainless steel bolting
- Fully enclosed TFE gasket
- High quality castings
- Bolted cover
- Integral seat

Swing Check Valve Specifications

- Sizes 1/2" thru 12"
- Pressures: Ansi Class 150, 300 and 600
- Ends: flanged, threaded, socketweld and butt weld
- Materials: cast SS and exotic alloy
- Design: ANSI B16.34 and B16.10



Lift Check Valve Standard Features

- Inconel X-750 spring
- Stainless steel bolting
- Fully enclosed TFE gasket
- High quality castings
- Bolted cover
- Integral seat

Lift Check Valve Specifications

- Sizes 1/2" thru 2"
- Pressures: Ansi Class 150, 300 and 600
- Ends: flanged, threaded, socketweld and butt weld
- Materials: cast SS and exotic alloy
- Design: ANSI B16.34 and B16.10

Cooper lift checks are supplied with a Inconel X-750 spring for extra strength and corrosion resistance. Cooper lift checks have a low differential pressure seal with a cracking pressure of 5 to 10 PSI. They can be supplied with a renewable disc with Teflon insert good for -100°F or KEL-F insert good for -325°F.



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INTSUP VALVE

DRESSER / COOPER VALVES

Dresser/Cooper Ball Valves

Flanged Ball Valves

Special Advantages

- Standard Features
- Full port
- Fire tested-API 607
- Available in all alloys
- Blowout-proof stem
- Solid ball-straight through fluid path
- All valves hydrostatically tested to ANSI B 16.34, API 598, MSS SP61 .All valves serialized-full traceability of materials
- Flexible manufacturing facility - widest choice of special applications in the industry.



Fire Test Certification API 607

Cooper ball valves Models 415, 430, 460 (sizes 1/2" thru 8") have been qualified by testing and meet the requirements of API 607. The original test reports are on file and are available for customer inspection at our facility.

Three(3) Piece Ball Valves

Special Advantages:

- Reinforced TFE seats and seals
- Secondary metal-to-metal seat
- Self-adjusting packing
- Blowout-proof stem
- 1/4" - 3" standard and full port-all alloys
- Cooperfill™ 133 thrust bearing-exceptionally long life
- All valves hydrostatically tested to applicable ANSI, MSS or API specifications
- All valves serialized - full traceability of materials
- Flexible manufacturing facility - widest choice of special applications in the industry



Options:

- Exotic alloys
- Firesafe
- Vacuum service
- Cryogenics
- Cavity filled seats
- Chlorine service



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INTSUP VALVE

BONNEY FORGE VALVES



Bonney Forge is a leader in the production of forged steel gate, globe, check and special purpose valves. The Bonney valve is delivered the world over and has a reputation that has been built upon product integrity and the ability to provide prompt and reliable service. Chemical and mechanical properties of every Bonney Forge valve are fully traceable to the original forging lot or heat. The broad-based Bonney capability covers carbon, stainless steel, chromes, and special alloys. The Bonney Forge name on forged steel valves is your assurance of consistent quality, a proven product, and responsive service.

Bonney Forge Gate Valves

Bonney Forge gate valves conform to API 602, BS 5352, and ASME B 16.34. Each are tested according to API 598, marking is per MSS SP25.

- Full Port or Conventional Port
- Outside Screw and Yoke (OS & Y)
- Two piece self aligning packing gland
- Bolted bonnet with spiral-wound gasket or threaded and seal welded bonnet
- Integral backseat
- Socket weld Ends to ASME B16.11
- Screwed Ends (NPT) to ANSI/ASME B1.20.1



Bonney Forge Globe Valves

Bonney Forge globe valves conform to MSS-SP-118, ASME B 16.34, and BS 5352. Each are tested according to API 598, and marking is per MSS-SP 25.

- Full Port or Conventional Port
- Outside Screw and Yoke (OS & Y)
- Two piece self-aligning packing gland
- Bolted bonnet with spiral-wound gasket or threaded and seal welded bonnet
- Integral backseat
- Loose solid disc
- Socket weld ends to ASME B16.11
- Screwed Ends (NPT) to ANSI/ASME B1.20.1



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Houston, Texas 77237
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Fax: 713 981-5227
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INTSUP VALVE

BONNEY FORGE VALVES

Bonney Forge Check Valves

Bonney Forge check valves conform to MS-SP-118 and ASME B16.34. Each are tested according to API 598, and marking is per MSS SP25.

- Full Port or Conventional Port
- Piston check
- Ball check
- Swing check
- Spring available on request
- Bolted cover with spiral-wound gasket or threaded and seal welded cover
- Socket weld Ends to ASME B16.11
- Screwed Ends (NPT) to ANSI/ASME B1.20.1



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INTSUP VALVE

W A L W O R T H V A L V E S



Ten years ago Walworth initiated a comprehensive Quality Assurance Program incorporating the requirements of API Q1 and culminating with the registration of our Inval Cast Steel and Plug Valve plant by QCB of Canada (Accredited by the Dutch Council) under the requirements of ISO 9001-1994; Certificate number 95-157. Walworth Valves are widely accepted by customers including Petroleos Mexicanos, Comisión Federal de Electricidad (CFE), Atlantic Richfield Inc., Consolidated Edison of New York, Chevron U.S.A., Exxon Company, Mobil Oil, Phillips Petroleum, Shell Oil, Texaco, and Union Carbide Chemical Co. to name but a few.

Walworth Valve Products are manufactured in accordance with internationally recognized and accepted standards including API, ANSI, ASME, MSS, NACE, AWWA, BSI, and CSA. At each of our five manufacturing facilities, a dedicated team of highly qualified engineers work to assure that each phase of the production process for each of our valve product lines meets or exceeds the customer's specifications. CAD utilizing finite element analysis, fugitive emission qualification, and fire test capabilities are just a few of the in house resources helping to assure that our customers receive a valve product that meets and exceeds industry standards and customer expectations.

Since 1842, the Walworth name has stood for quality and dependability. Today, Walworth continues to serve the Petro-Chemical, Refining, Oil and Gas Production, Pipeline Transmission, Power Generation, Pulp and Paper, Waterworks and Commercial Construction industries around the world with a broad line of quality valve products in a wide array of materials and sizes. Walworth controls all aspects of production from material selection, radiographic verification of casting quality, dimensional control and final inspection and testing including critical component trace-ability.

Each of the ten product lines that Walworth produces has been designed and manufactured under a Quality Management System certified to meet ISO 9001 and API Q1 requirements. Our Cast Steel Gate, Globe and Check Valves; Forged Steel Gate, Globe and Check Valves; and Lubricated Plug Valves are produced at our Walworth-Inval facility in Mexico City, Mexico, while our Bronze and Iron Gate, Globe and Check Valves are produced at our Walworth-Fundival facility in Gomez Palacio, Mexico.

Ball Valves and Gate Valves for pipeline service along with upstream products such as wellheads, Christmas trees, chocks, and Valves are produced at our Walworth-FIP facility in Mexico City. This facility holds both the ISO 9001 certification and the API Q1 license to monogram products. Twelve years ago Walworth initiated a comprehensive Quality Assurance Program incorporating the requirements of the API Q1 Quality management System. Subsequently, Walworth expanded the system and each Walworth facility became certified to ISO 9001 requirements.



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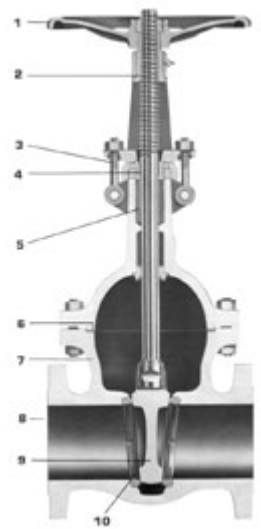
INTSUP VALVE

WALWORTH VALVES

Walworth Gate Valves

Design Features

1. Sure-grip Hand wheel. Fluted design assures a firm grip, even with greasy gloves.
2. Yoke Nut. Extra long thread engagement between yoke nut and stem provides long thread life. Force feed lubricant application is included.
3. Gland Eye Bolts Facilitate Packing Maintenance. For ease in repacking the valve, gland eye bolts are mounted to swing aside.
4. Extra Clearances Prevent Stem Scoring. Sufficient clearance between the gland, stem and stuffing box prevents scoring stem even if the gland is inserted unevenly.
5. Deep Stuffing Boxes. Depth is more than adequate in all sizes and pressures to assure tightness and maximum packing life. Packing sizes conform to API requirements for refinery service. In all cases bonnet back seats are furnished against which the stem head may be seated, thus relieving the pressure on the packing to facilitate repacking. Stuffing box packing is a reinforced, flexible graphite packing which remains flexible and resilient at high temperature, which permits ease in gland adjustment, and which contains a corrosion inhibitor for protection of the stem.
6. Body-to-Bonnet Joint. A flat face gasket joint is used in the Class 150 valve. A male and female or tongue and groove joint is used in the body - bonnet connection of the Class 300 and higher valves; this type of closure permits reassembly in the field without danger of misalignment.
7. Bodies of all valves give adequate bolt clearance for end flange bolting and for nuts between body neck and back of end flange. On Class 300 and higher valves, body-bonnet flanges are made circular for greatest strength and for minimum distortion.
8. Ports are Streamlined. Permits unobstructed flow which reduces turbulence resulting in minimum pressure drop and lowers erosion.
9. Integral Guide Rib Faces Assure Self-Centering of Wedge. All wedges of I-beam cross section for greater strength. Long guide slots in wedges making centering of wedges certain at all times. The wedge has integrally forged or cast heavy hooks to provide a substantial connection for the tee-head stem while allowing the wedge to center itself.
10. Seat Rings Designed to Eliminate Turbulence. Erosion and Pressure Drop. Cylindrical bottom-seated type having ample cross-section (for strength) are inserted so that no recess exists at the back of the ring. Seat ring and machined portion of body are finished accurately to gage.



P O Box 37168

INTERNATIONAL SUPPLIERS
INCORPORATED

P O Box 37168

Houston, Texas 77237

Phone: 713 981-8750

Fax: 713 981-5227

Email: Sales@IntSup.com

All Walworth Cast Steel Gate Valves can be furnished with either flanged ends or butt welding ends.

INTSUP VALVE

WALWORTH VALVES

Walworth Globe Valves

Walworth Cast Steel Globe and Angle Valves have the same sturdy characteristics as Walworth Gate Valves, such as sure-grip handwheels, long threaded yokenuts, deep stuffing boxes, extra strong and tight bonnet joints, excellent guiding of discs above the seat for minimum restriction of flow, extra smooth seating surfaces for ease of tight seating, best selection of trim materials for varied services, etc.

Walworth Cast Steel Globe and Angle Valves can be supplied with V-port, parabolic, or semi-parabolic discs for special flow characteristics.

Where globe and angle valves in Class 300 and higher are regularly furnished with spur or bevel gearing, it will be of the enclosed type mounted, unless otherwise specified, with the handwheel shaft on the left side of the valve when facing the end port that leads from above the disc seat. When specified, these valves can be furnished without gearing.



Walworth Check Valves

Walworth Cast Steel Swing Check Valves have straight-through flow paths and readily opening discs to provide very low friction loss.

POINTS TO REMEMBER ABOUT CHECK VALVES

1. The function of check valves is to stop reversal of flow automatically and promptly. Usually it is desirable that they be supplemented by gate, globe, or other valves for manual control of the fluid in the line.
2. Check valves must be sized to meet the flow conditions. Oversizing of a check valve will result in increased wear and improper operation.
3. Check valves should be installed so that the force of gravity will assist in closing and holding the disc or clapper on the seats.
4. Check valves are one-way valves and should be installed so that the line pressure is under the disc.
5. Swing check valves should not be used in vertical pipe lines handling liquids at high heads because severe water hammer may result from reversal of flow.



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INTSUP VALVE

POWELL VALVES



The William Powell Company is a manufacturer of gate, globe, and check valves in bronze, iron, steel, and corrosion resistant alloys for Class 125 thru Class 2500 pressure service. The William Powell Company's experience as a pioneer in the development of industrial valves, since 1846, encompasses over a century of craftsmanship and know-how. Through modern engineering, laboratory, research and testing facilities, The William Powell Co. has been able to keep pace with the changing times.

Powell Cast Steel Pressure Seal Valves

Powell Pressure Seal Valves are intended for high pressure, high temperature applications in all types of fluid except where severe coking is a factor.

The design and materials selection provide excellent service in fossil and nuclear steam generating stations, industrial and chemical plants, and refineries.

The Powell design Pressure Seal Valves provide the most efficient flow passage and sealing features possible resulting in significant weight savings, ease of installation and maintenance features.

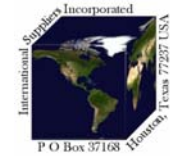
Manufacturing and quality assurance procedures include extra controls on dimensional, non-destructive examination and testing of critical areas such as the gasket seating, welding end and stellited seating surfaces.



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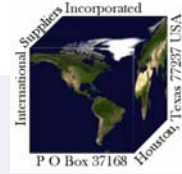
INTSUP VALVES



STAINLESS STEEL VALVES COMPARISON CHART

			Ladish	Velan	Aloyco	Cooper	Powell	Kitz
Gate	150# OS&Y BB	Flanged	8275	F0064C-13MY	127	115RF	2491SG	150UMAM
	Solid Wedge						2456SG	150UMAM
	Split Wedge	Flanged	8272		117		2491DG	
							2456DG	
	150# OS&Y BB	Threaded	8273		122	101-SE	2490	AK150UMM
		Socketweld	8274		124	101-X	2490SW	AW150UMM
	Split Wedge	Threaded	8270		110		2494	
	300# OS&Y BB	Flanged	8375	F1064C-13MY	2217	130RF	2467	300UMAM
	300# OS&Y BB	Threaded	8363		2210	3381-SE	2466	AK150UMM
		Socketweld	8364		2214	3381-X	2466SW	AW150UMM
	600# OS&Y BB	Flanged	8675	F2064C-13MY	4227	160RF	1973	600UMAM
	600# OS&Y BB	Threaded	8663		4210	3611-SE	1972	AK600UMM
		Socketweld	8664		4214	3611-X	1972SW	AW600UMM
Globe	150# OS&Y BB	Flanged	7272	FO074C-13MY	317	215RF	2475	150UPAM
		Threaded	7270		310	11-SE	2474	AK150UPM
		Socketweld	7271		314	11-X	2474SW	AW150UPM
	300# OS&Y BB	Flanged	7372	F1074C-13MY	2317	230RF	2447	300UPAM
		Threaded	7360		2310	4301-SE	2446	AK300UPM
		Socketweld	7361		2314	4301-X	2446SW	AW300UPM
	600# OS&Y BB	Flanged	7662	F2074C-13MY	4317	260RF	1983	600UPAM
		Threaded	7660		4310	4601-SE	1982	AK600UPM
		Socketweld	7661		4314	4601-X	1982SW	AW600UPM
Check	150# BC	Flanged	5272	F0141C-13MY	377	315RF	2342	150UOAM
					2633			
		Threaded	5270		370	2001-SE	2341	AK150UOM
		Socketweld	5271		374	2001-X	2341SW	AW150UOM
	300# BC	Flanged	5372	F1114C-13MY	2377	330RF	2346	300UOAM
		Threaded	5370		2370	2301-SE	2345	AK300UOM
		Socketweld	5371		2374	2301-X	2345SW	AW300UOM
	600# BC	Flanged	5672	F2114C-13MY	4377	360RF	2350	600UOAM
		Threaded	5670		4370	2601-SE	2349	AK600UOM
		Socketweld	5671		4374	2601-X	2349SW	AW600UOM

INTSUP VALVES

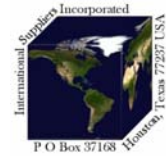


FORGED STEEL VALVES COMPARISON CHART

			VOGT	VELAN	SMITH	WALWORTH	BONNEY FORGE
Gate	800# BB OS&Y	A105	12111	S-2054B-02TY	800-000GO	W950S	HL-11
		A105-FHF	12111FHF	S-2054B-02TS	800-0TOGO	W950S-201	HL-12
		A105-316	12111F8M	S-2054B-02NB	800-YSOGO	W950S-501	HL-13
		A105-Monel	12111MM	S-2054B-02NC	800-YDOMO	W950S-200	HL-14
		F316L	12401	S-2054B-14MY	800-JSOGO	W950S-535	HL-18L
	800#WB OS&Y	A105	2801	S-2054W-02TY	870-000GO		WL-11
		F316L	2831	S-2054W-14MY	870-JSOGO		WL-18L
	800#WB OS&Y	A105		S-2054W-02TY	5870-000GO		W-11
	Full Port	F316L		S-2054W-14MY	5870-JSOGO		W-18L
	800# BB OS&Y	A105	13111	S-2064B-02TY	888-000GO	W958S	H-11
	Full Port	F316L	13401	S-2064B-14MY	888-JSOGOW	958S-535	H-18L
	800#MP WB OS&Y	A105	ST2801	W-2184W-02TY	877-000G		MFL-11-MP
	800#MP BB OS&Y	A105	ST12111		812-000GO		ML-11-MP
	1500# BB OS&Y	A105	15111	S-3054B-02TY	1500-000GO	W1950S	9HL-11
		F316L	15401	S-3054B-14MY	1500-MSOGO	W1950S-535	9HL-18L
	1500#WB OS&Y	A105	15801	S-3054W-02TY	1570-000GO		9WL-11
		F316L	15831	S-3054W-14MY	1570-MSOGO		9WL-18L
	1500# BB OS&Y	A105	16111	S-3064B-02TY	1588-000GO	W1951S	9H-11
	Full Port	F316L		S-3064B-14MY	1588-MSOGO	W1951S-535	9H-18L
	150#RF BB OS&Y	A105	353	F-0054B-02TY	815-000GO		L1-11
	300#RF BB OS&Y	A105	363	F-1054B-02TY	830-000GO		L3-11
	600#RF BB OS&Y	A105	373	F-2054B-02TY	860-000GO		L6-11
	1500#RF BB OS&Y	A105	15373	F-3054B-02TY			15F-11
Globe	800# BB OS&Y	A105	12141	S-2074B-02TY	G80-000GO	W5520S	HL-31
		A105-FHF	12141FHF	S-2074B-02TS	G80-0TOGO	W5520S-201	HL-32
		A105-316	12141F8M	S-2074B-02NB	G80-YSOGO	W5520S-501	HL-33
		A105-Monel	12141MM	S-2074B-02NC	G80-YDOMO	W5520S-200	HL-34
		F316L	12501	S-2074B-14MY	G80-JSOGO	W5520S-535	HL-38L
	800#WB OS&Y	A105	2821	S-2074W-02TY	G87-000GO		WL-31
	1500# BB OS&Y	A105	15141	S-3074B-02TY	G157-000GO	W5521S	9HL-31
		F316L	15501	S-3074B-14MY	G157-JSOGO	W5521S-535	9HL-38L
	150#RF BB OS&Y	A105	473	F-0074B-02TY			L1-31
	300#RF BB OS&Y	A105	483	F-1074B-02TY	G83-000GO		L3-31
	600#RF BB OS&Y	A105	493	F-2074B-02TY	G86-000GO		L6-31
Check	800# BC PISTON	A105	701	S-2034B-02TY	C80-000GO	W5540S	HL-41
		F316L	718	S-2034B-14MY	C80-JSOGO	W5540S-535	HL-48L
	1500# BC	A105	15701	S-3034B-02TY	C150-000GO	W5541S	9HL-41
		F316L		S-3034B-14MY	C150-JSOGO	W5541S-535	9HL-48L
	150#RF BB OS&Y	A105	573	F-0034B-02TY			L1-41
	300#RF BB OS&Y	A105	583	F-1034B-02TY	C83-000GO		L3-41
	600#RF BB OS&Y	A105	593	F-2034B-02TY	C86-000GO		L6-41
	800# BC SWING	A105	S701/4835	S-2114B-02TY			HL-61

INTSUP VALVES

CAST STEEL VALVES COMPARISON CHART



		CRANE	Velan	Powell	Walworth	Kitz
Gate	150#RF BB OS&Y	47XUF	0064C-02TY	1503	5202F	150SCLS
	300#RF BB OS&Y	33XUF	1064C-02TY	3003	5206F	300SCLS
	600#RF BB OS&Y	76XUF	2064C-02TY	6003	5232F	600SCLS
	900#RF BB OS&Y	83XUF	7064C-02TY	9003	5247F	900SCLS
	1500#RF BB OS&Y	87XUF	3064C-02TY	1303	5262F	1500SCLS
Globe	150#RF BB OS&Y	143XUF	0074C-02TY	1531	5275F	150SCJS
	300#RF BB OS&Y	151XUF	1074C-02TY	3031	5281F	300SCJS
	600#RF BB OS&Y	171XUF	2074C-02TY	6031	5295F	600SCJS
	900#RF BB OS&Y	183XUF	7074C-02TY	9031	5301F	900SCJS
	1500#RF BB OS&Y	189XUF	3074C-02TY	1331	5308F	1500SCJS
Swing Check	150#RF Bolted Cap	147XUF	0114C-02TY	1561	5341F	150SCOS
	300#RF Bolted Cap	159XUF	1114C-02TY	3061	5344F	300SCOS
	600#RF Bolted Cap	175XUF	2114C-02TY	6061	5350F	600SCOS
	900#RF Bolted Cap	187XUF	7114C-02TY	9061	5353F	900SCOS
	1500#RF Bolted Cap	199XUF	3114C-02TY	1361	5356F	1500SCOS