Your Source for Safety Valves Replacement Parts & Repair Needs



When It Comes to Safety Valves, Come to Us

New safety valves. Remanufactured. Repairs. And exact replacements of your old vales. When the pressure is on, count on us to handle the job fast and at a competitive price.

We're partnered with a leader in safety and relief valves who works only with wholesalers. That partnership means you have access to the largest, ready-to-ship inventory in the country. How large? 35,000 valves from the world's most trusted brands in a 100,000 sq. ft. facility. Shipped how fast? Same or next day.

The facility houses a complete machine shop and the latest test equipment. Nearly every safety valve's specifications are at the technicians' fingertips for exact build, repair and setting work, according to code requirements. Generally, irreparable valves can be replaced from in-stock inventory.

Take advantage of a Turnaround Exchange Program next time you have a valve that needs replacing or repair. You'll receive the valves you need prior to shutting down. Remove the existing valve, put in the exchange valve and keep it until yours are returned from service.

At the end of the day, it's about tailoring service and programs to your needs. All it takes is one of our experts to visit your plant.

We're on Standby, Ready to Help

How to Order Safety Valves

Supply The Following Information:

- 1. Quantity of Valves
- 2. Size of Valve Inlet and Outlet
- 3. Type, Model or Figure Number
- 4. Manufacturer
- 5. Inlet and Outlet Flange Rating and Facing
- 6. Body Material
- 7. Trim Material
- 8. O Ring Seat Seal Material, if required
- 9. Set Pressure
- 10. Required Capacity
- 11. Type of Service (Flow Medium)
- 12. Operating and Relieving Temperature
- 13. Back Pressure-Constant or Variable Amount
- 14. Allowable Overpressure
- 15. Accessories (Cap, Lever, Gag, etc.)

General Information & Definitions

SAFETY VALVE: Safety valves or pop safety valves are automatic, direct-pressure actuated, pressure-relieving devices for use in vapor or gas services.

SAFETY RELIEF VALVE: Safety relief valves are basically like pop safety valves and are primarily for liquid service where the thermal expansion in a liquid laden vessel actuates the valve. When vapor is generated in these vessels, due to uncontrolled heat input, this valve with the huddling chamber, will give a high disc lift and discharge the expanded vapors. This valve is also suitable for gas or vapor service.

SELECTION OF VALVE: Valves should be selected for the particular installation on which they are to be used and also on the basis of the rated discharge capacity. This should be equal to or greater than the maximum output of the system.

INSTALLATION: The value is to be installed in a vertical position, into a clean fitting, using the proper size and type of wrench so as not to damage the valve. The discharge piping, without stop valves, shall be independently supported and sloped downward slightly to drain condensate.

OPERATING PRESSURE: The actual pressure at which a vessel is maintained in normal operation.

ALLOWABLE WORKING PRESSURE: Maximum design pressure of a new vessel in accordance with applicable codes.

SET PRESSURE: The pressure at which the valve opens.

BLOWDOWN: The difference between the pressures at which a pop type safety valve opens and closes.

POP ACTION: The sharp opening action of a safety valve when operating with steam, air or other compressible fluids.

WARN: This is the sound in the valve immediately preceding the pop. This is also called a "simmer."

DISC: The moving member of the valve which is held down by the spring and is lifted by the water, vapor or gas pressure.

Example:
4
1 ½″ x 2″
1905FC
Consolidated
150 x 150, RF, ANSI
Steel
Stainless Steel
Teflon
125 psig
2390 lb./hr.
Steam
274-298 degrees F
0
10%
Open Lever

Remanufactured Valves: A Reliable Alternative

Lower prices, reliable performance and guick availability make remanufactured valves a smart choice.

Relying on remanufactured valves makes good sense for most industrial uses because they are:

- Readily available •
- As dependable as new valves
- Extremely cost-effective
- As safe as new valves

A Serious, Meticulous Process Results in Optimal Safety and Performance

Remanufacturing a safety valve involves serious attention to detail and following a 7-step meticulous process.

- The valve is completely disassembled, cleaned and inspected.
- Every working part is checked for signs of wear and ability to meet the manufacturer's tolerances.
- Castings are sandblasted and checked for potential defects.
- All flanges are faced to a new finish.
- All gaskets, bolts and nuts are replaced.
- The valve is reassembled and painted.
- The valve undergoes a series of tests to verify it meets or exceeds the criteria of a new valve.

Two-Year Warranty Guarantees Workmanship

Our personnel follow a strict quality control program, carefully monitoring each step of the remanufacturing process. And, we guarantee all remanufactured valves for two years on parts and workmanship.

Valve Exchange Programs Avoid Lengthy Shut Downs

As with our new valves, online ordering and parts inventory ensure a fast, reliable turnaround for remanufactured safety valves.

Here's how it works:

- Before a maintenance shutdown, we ship safety valves to the customer in advance. •
- The valves in need of repair or remanufacture are shipped to us for service.
- After service, the valves are set and shipped back to the customer for use during their next scheduled maintenance shutdown.

Check with your Applications Engineer for details on how remanufactured valves can work for you and your customers

The difference between remanufactured valves and new OEM is:

Half the Price! Twice the Warranty!



On-Site Testing and Repair

When the fastest off-site service isn't fast enough, we bring our repair shop to your customer.

Our self-contained mobile repair shop and testing unit brings valve repair and resetting during scheduled maintenance shutdowns to your customer. Completed safety valve field work will carry the VR stamp.

Step inside and you'll find all the equipment necessary to perform the highest-caliber repairs, including:

- Sandblaster
- Compressor
- Lathe
- Mill/drill press
- Lapping stones

State-of-the-Art Computerized Testing

A state-of-the-art, computerized lift-assist testing unit allows for testing set pressures and resetting high-pressure safety valves in the field. This makes it possible to test valves that are welded in-line or stationery without removing the valves. You won't be required to pressure down or increase pressure to test for set pressure. Lift-assist also allows for resetting valves after repairs have been made while the valves are online.

Contact your local valve supplier for more information on scheduling and costs.

A consolidated seat-resurfacing machine with all the adapters for every orifice in the Maxi-Flow boiler line



Valve Service Center: Repairs Carry a One-Year Warranty

Our capabilities keep your customers' safety and relief valves in peak operating efficiency.

Our factory-trained personnel spot potential problems and recommend the most economical ways to solve them. Over the years, our service center has earned maintenance managers' trust because we're their reliable source for getting their valves repaired, serviced and set guickly. In other words, we minimize downtime and save money.

Our service center:

- Updates valves to the latest design standards when necessary.
- Upgrades valves using only genuine factory standard parts to assure maximum reliability and long life.
- Stands behind our serviced valves with a one-year standard warranty.
- Holds ASME's V & UV stamps and National Board's NB & VR stamps.

Exchange and Rental Programs

Our valve exchange program eliminates both the capital commitment of keeping stock on hand of backup valves and the risk of excessive downtime due to unavailability. An exchange program customized to your timeline offers significant cost savings during turnaround maintenance outages.

Our valve rental program is perfect for when you can't afford a shutdown or with safety valves that need repair, but too few of them to justify on-site service. Before a maintenance shutdown, we ship the safety valves your customer needs in advance. The old valves are shipped to our service center for repair, testing and reset. After service, the valves are shipped back, replacing the rented valves.

One call to your valve supplier will provide quick solutions to all your service needs.

Repair Case Study: Quick Turnaround

The turnaround: Only one week. **Cost savings: Significant**

A severe duty safety valve was sent in for repair. Castings were sandblasted, flanges were refaced, worn critical metal surfaces were resurfaced and machined to original tolerances, and all gaskets, bolts and nuts were replaced.

The valve was tested under the same rigorous quality guidelines as a new valve and returned in just one week.

After

Cross Reference Catalog

Looking for the right safety valve from all the major brands? We have decades of experience cross-referencing valves.

Process/Safety- Relief Valve – Flanged

Consolidated 1900



Features:

- ASME-NB

- All stainless
- O-Ring Seat
- Balance Seal

Sizes: 1 through 12 inches

Process/Safety- Relief Valve – Screwed

Kunkle 264 Series

Brands and Part Nos.

Features:

- ASME-NB
- •

- •
- All stainless
- O-Ring

Sizes: ¹/₄ through 2 inches









• Lonergan – D Series, DB Series, DH Series, DO Series, DS Series Consolidated – 1900 Series, 1900-30 Series Kunkle – 910/911 Series Crosby – JOS/JO Series, JBS/JS Series, JLT Farris - 26EA10, 26RB11, 26PA12, 1900, 4500

Plain Cap, open test lever and packed test lever Stainless steel or special alloy trim For process and general service industries C.S. or special alloy bodies



• Kunkle – 140, 264, 265, 266, 267, 910, 911 Lonergan – L14, L40, L41, LCT-14, LCT-40, BCA Consolidated - 1970, 1975, 1980, 1982, 1990-98, 2990-98, 3990-98, 19110, 19096 Farris - 1850, 1890, 2740UL, 2741U, 2745, 7000-7200

Plain Cap, open test lever and packed test lever Stainless steel or special alloy trim For process and general service industries C.S. or special alloy bodies

Special Connections: Flanged, Butt Weld & Socket Weld

Portable Bronze Safety Valve

Kunkle 6010 Series



Brands and Part Nos.

- Kunkle 2, 2-A, 87T, 337, 363, 6010, 6021, 6283, 912, 913
- Lonergan 11W200, FBA, FBF, EIF Series
- Consolidated 1541-1543 Series, 1541-3 and 1543-3 Series •
- Farris 1855, 1856M, 1896M •
- Aquatrol 78, 88, 89, 740
- Apollo* 19 Series, 29 Series

Features:

- ASME-NB
- Steam or Air Service
- Plain cap or test lever
- Side outlet
- Bronze or stainless steel trim
- Soft seat
- Cryogenic

Sizes: ¹/₄ through 3 inches

Bronze Liquid Relief Valve



Kunkle 20 Series

Brands and Part Nos.

- Kunkle 19, 20, 200-H, 200-A, 912, 913, 911 •
- Lonergan TBB •
- Consolidated 2478 •
- Aquatrol 51, 55, 69 •
- Kingston 103, 103D, 120

Features:

- Plain cap or test lever •
- Bronze or stainless steel trim
- Screwed or flanged connections
- Hand wheel adjustment
- UL or FM approval •

Sizes: ¹/₄ through 3 inches



Cast Steel Boiler Safety Valve

Kunkle 300/600 Series



- Kunkle 300, 600
- Lonergan S, K, R
- •

Features:

- ASME-NB
- Steel or alloy body •
- Test lever
- Exposed spring • •

Sizes: 1 through 8 inches

Cast Iron and Cast Steel Liquid Relief Valve

Kunkle 91 Series



Brands and Part Nos. Kunkle – 71-S, 91, 91-s, 171, 171-S, 218, 228 . • Lonergan – H, HU, 41H200, HDF Consolidated – 1491, 1496, 1685

Features:

- •

- Hand wheel adjustment

Sizes: ¹/₂ through 6 inches

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Consolidated - 1555, 1556, 1557, 1700, 1811, 2700 Crosby – HCI, HSJ, HE, HSL Farris – 2585, 4500, 6400

Steel or alloy spring

Flanged or Butt Weld

FM approval for fire system service Bronze or stainless steel trim Screwed or flanged connections All stainless steel

Cast Iron Safety Valve

Kunkle 6252 & 252



Brands and Part Nos.

- Kunkle 6252/252, 6253/53
- Lonergan 41W200, GIF, YIA, YIJ
- Consolidated 1511
- Apollo* 119 Series

Features:

- ASME-NB
- Steam or air service
- Plain cap or test lever
- Bronze or stainless steel trim
- Screwed or flanged connections

Sizes: 1¹/₂ through 6 inches

Low Pressure Steam Boiler Safety Valve

Kunkle 930

Brands and Part Nos.

- Kunkle 183-T, 6933, 930/933, 6254
- Apollo* 12-200, 13-200, 14-200

Features:

- ASME-NB
- Screwed or flanged connections
- Medium or high capacity

Sizes: ³/₄ through 4 inches

Air Compressor Safety Valve

Kunkle 30

Brands and Part Nos.

- Kunkle 1, 1A, 30, 230, 330, 540, 542, 548, 949, 6182, 6186
- Kingston 100, 110C, 112CSS, 114, 115, 118CSS, 119CSS, 125, 128
- Aquatrol 120-121, 130, 132

Features:

- ASME-NB
- Screwed or flanged connections •
- Medium or high capacity

Sizes: ³/₄ through 4 inches

* Formerly Conbraco

Hot Water Boiler Relief Valve

Kunkle 537

Brands and Part Nos.



- .

 - McDonnel-Miller 230, 240
 - Bell & Gossett 175, 480, 750

Features:

ASME-NB

Sizes: ³/₄ through 2 inches

Vacuum Relief Valve

Kunkle 215V

Brands and Part Nos. • Kunkle – 215V, 912

or aluminum

Features:



Drip Pan Elbows

Kunkle 299/DPE

Brands and Part Nos.

• Kunkle – 299 Keckley – DPE



Features:

- Cast iron and cast steel

Sizes: ¹/₂ through 8 inches



Apollo* – 10-213, 10-321, 10-604, 10-618 Watts – 3L, 30L, 174-A, 374-A, 740

Apollo* – 14-295, 37-100

Iron, steel, stainless steel, bronze

Sizes: ¹/₂ through 8 inches

Flanged and screwed connections

