PRATT

Henry Pratt Line Card

Engineering Creative Solutions
for Fluid Systems Since 1901

Henry Pratt is a leading manufacturer of valves to the water and wastewater industry. Our valves are used in potable water, wastewater, power, industrial, and nuclear markets.

Henry Pratt valves represent long-term commitment to both the customer and to a tradition of product excellence. This commitment is evident in the number of innovations we have brought to the industries we serve. In fact, the Henry Pratt Company was the first to introduce many of the flow control products in use today, including the first rubber seated butterfly valve, one of the first nuclear N-Stamp valves, and the bonded seat butterfly valve.

Pratt's ability to provide practical solutions to complex issues is evident in the number of specialized products we offer that help customers meet their individual operational challenges. Products include:

- AWWA Butterfly Valves: 3" – 162"
- Rectangular Valves: 3' x 3' to 14' x 16'
- Ball Valves: 4" – 60"
- Plug valves: 1/2" to 72"
- Water & Wastewater Air Valves
- Industrial Valves
- Fire Protection Valves
- Nuclear Valves
- Hydraulic Control Systems
- Valve Controls
- Energy Dissipating/Control Valves
- Cone Valves
- Check Valves
- Refurbishment Services
- Aftermarket Sales

PRATT

Through experience, commitment and creative engineering, Pratt is uniquely suited to provide superior products for our customers' special needs.
For more information, contact our corporate headquarters in Aurora, Illinois.

Butterfly Valves

Henry Pratt offers a wide variety of butterfly valves that meet or exceed AWWA C504 standards. From high pressure applications to nuclear/power plant applications, Pratt has the butterfly valve you are looking for.

The Pratt Triton™ Butterfly Valve has a rubber seat located in the body that reduces performance problems related to corrosive buildup in valve body and pipeline. The E-Lok seat can be adjusted and/or repaired in the field without dewatering the pipeline or removing the valve from the line. The flow through disc design allows more strength, less weight, and greater free flow area. Higher Cv : lower head loss results in energy saving for customer's system. The valves meet or exceed AWWA Standard C504 and conform to NSF61 and NSF372.

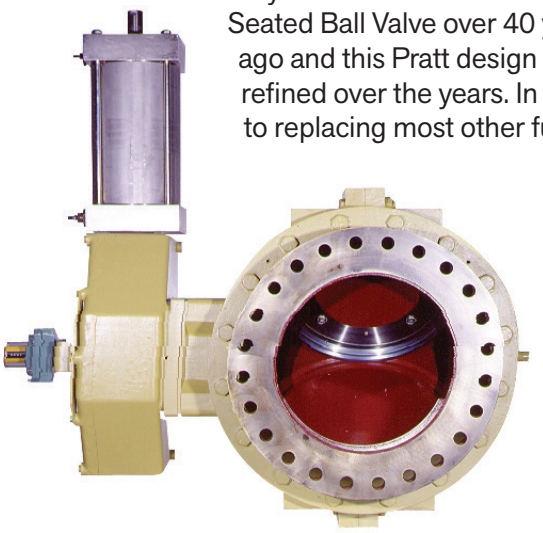
Henry Pratt now offers a 350psi, 525 shell test, ANSI 250#, Butterfly Valve – the first in the industry! This valve is excellent in high pressure applications. The valve body and disc are made of ductile iron with the rubber seat in the body for abrasion resistance and bubble-tight closure. Available in 6" – 48" with flanged end connections.

Pratt's 2FII™ rubber seated butterfly valves are available in sizes 3" through 20". The shafts are constructed of center-less, ground ASTM A276 type 304 or 316 stainless steel bar and thus are not susceptible to corrosion as are carbon steel or other similar materials. Shafts are one-piece, through-shaft construction, sized to meet or exceed the requirements of AWWA Standard C504 for Class 150B butterfly valves.

For underground distribution and transmission systems, Pratt offers Groundhog® valves in sizes 4" – 72". This valve meets all requirements of AWWA C504. A Pratt MDT buried service actuator is standard, and either flanged, mechanical joint, push-on joint, wafer or victaulic coupling styles are available. Components are selected for long-term reliability, so the valves will provide service life equaling or exceeding that of the pipeline.

Ball Valves

Pratt ball valves are ideally suited for pump check service in large water, sewage and wastewater pump stations to control pump start-up and shutdown surges and provide virtually zero headloss while pumping for lowest possible pumping cost. Available in a variety of sizes, the ball valve serves as a shutoff device in potable, raw water, sewage, and applications involving high velocity service. Because of their full port area, ball valves minimize pumping costs which translates into lower operating costs for the plant. Features include double seats, a 100% full port design, and they fully comply with AWWA standard C507.



Henry Pratt introduced the Rubber Seated Ball Valve over 40 years ago and this Pratt design has been refined over the years. In addition to replacing most other full port valves, the Pratt ball valve is used extensively in applications where swing check and globe-type check valves were formerly used. The Pratt ball valve has also found extensive applications in high velocity service such as hydroelectric and gravity feed lines where line velocities exceed 50 feet per second. The Pratt ball valve is equally effective as a long lasting shutoff device in potable, raw water, and raw sewage applications.

In 1991 Pratt introduced a metal seated ball valve to the municipal water and wastewater marketplace. The Pratt ball valve offers high flow rates, protected seating areas when in the open and closed position, and the ability to operate in the presence of solids and other contamination. It meets or exceeds AWWA C507 standard, has a relatively low torque for operation, and has a long life in high-cycle conditions. Pratt's ball valve passed the 10,000 cycle test.

Air Valves

In 2013, Henry Pratt introduced its innovative line of AirPro Max® Air Valves, which represent all three basic types of air valves for the water and wastewater industries: air release valves, air vacuum valves and combination valves, as well as anti-shock air vacuum valves, vacuum breaker, and well service valves.

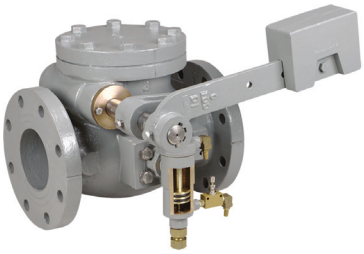
AirPro Max Series WAR Air Release Valves are designed to vent trapped air that collects at high points in a pipeline. AirPro Max Series WAV Air Vacuum Valves are high capacity air venting and intake valves designed to vent lines and prevent vacuums within the line. The AirPro Max Series WCV Combination Air Valve combines the functions of both the Air Release Valve and Air Vacuum Valve.

The AirPro Max Series WWAR Wastewater Air Release Valves, Series WWAV Wastewater Air Vacuum Valves and Series WWCV Combination Valves perform the same functions for all wastewater applications.

Check Valves

Henry Pratt has a full line of check valves including: swing check, spring loaded, double disc, globe, compact wafer-silent, wafer, flexible disc, tilted disc, and rubber flapper.

Series 8001 and 9001 Swing Check Valves are self-contained, free-swinging disc style with outside lever and weight or outside lever and spring. Valves conform to all standards set forth in AWWA C508, latest edition. Best used in wastewater, water, sewage, oil, and gas applications. The 8001 series are produced with cast iron body, bronze or stainless steel seat rings, Buna-N or EPDM disc inserts, and hinge pins of corrosion resistant stainless steel. The 9001 Series feature enlarged hinge pins and upgraded materials of construction set forth for air or oil cushion valves. They are produced in cast iron body, bronze or stainless steel seat rings, Buna-N or EPDM disc inserts, and hinge pins of corrosion resistant stainless steel. Valves are field convertible to bronze air cushion or oil cushion systems. Both series have internal and external epoxy coating conforming to AWWA C550 standard. Valves are designed for horizontal or vertical installations and for uninterrupted continuous service.

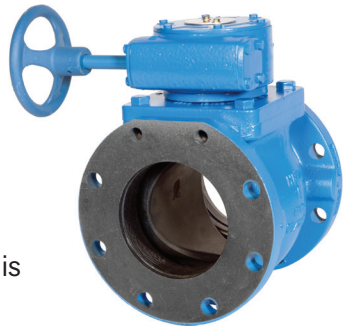


RD-Series™ Check Valve has only one moving part: a resilient disc reinforced with steel. This simple, innovative valve provides dependable, maintenance free performance, and quiet operation with its inherent non-slam construction. The large, unobstructed flow path makes the valve an excellent choice for wastewater as well as water applications. The design has undergone a rigorous 1,000,000 continuous cycle test with no signs of wear or distortion to the valve disc or seat. All sizes, 2" – 24", have a 250 psi rating.

Tilting Disc Check Valve is the most versatile and reliable check valve Pratt has to offer. This valve offers significant energy and cost savings over the life of the valve due to its large flow area and low head loss characteristics. Short disc travel from full open to full close provides the ability to close very rapidly or very slowly to avoid contributing to slamming and surges. The tilting disc check valve is also offered with an upper hydraulic dashpot to aid in disc closure in multiple pump systems even after a power failure. Henry Pratt continues to expand our product offering to those customers who require specialty valves for applications where opening and closing times are critical to control flow reversal and reduce water hammer.

Plug Valves

The Pratt Ballcentric® Plug Valve available in sizes ranging from 1/2" – 72" is designed specifically for wastewater applications. The round port design available on sizes 1/2" – 12", offers the least resistance to slurry, sludge, and fluid flow resulting in less erosion, longer service life, and reduced pumping costs. The large round port design can pass larger solids reducing plugging problems. Round port valves offer the best flow characteristics compared to alternative port openings, resulting in less pressure drop across the valve. Pressure classes on 12" and smaller is 175 psi, pressure classes on 14" and larger is 150 psi, higher pressure on request.



Energy Dissipation/Control Valves

The Henry Pratt Plunger Valve is the valve to use whenever pressure heads or flow rates need to be safely and reliably reduced and controlled. Plunger valves are especially suitable for drinking water and raw water applications. All valve parts have been manufactured for optimum performance, taking into account their flow performance, enabling controlled energy conversion in the center of the pipe. This energy conversion results in minimal risk of cavitation damage. Typical applications include use as:

- Pump Start-up and control valve
- Reservoir inlet
- Control device in the inlet and bypass of turbines
- Control and simultaneous safety device in pipe systems

Fire Protection

When Pratt designed the first Post Indicating Butterfly Valve Assembly (PIVA®) more than thirty years ago, special emphasis was placed on providing a product that exceeds industry standards. While other manufacturers sell industrial fire protection valves at lower costs, no product comes close to meeting the quality of design, materials, and workmanship that Pratt fire protection products provide. All Pratt's fire protection products conform to AWWA C504 standards.

The UL Listed and FM approved PIVA® has asymmetrical construction and is furnished as a complete assembly so no job site assembly or adjustment is required. The PIVA® target is visible from 300 feet away, providing positive assurance of valve position at all times.

The UL Listed and FM approved Indicating Butterfly Valve (IBV®) is specifically designed for indoor or vault service in fire protection sprinkler systems. The IBV® has a highly visible yellow flag on the valve actuator that indicates whether the valve is open or closed. The IBV® also comes equipped with a submersible actuator which is well suited for a wide variety of sewer applications including pit service.

Control Systems

Pratt offers valve automation solutions that are cost effective, innovative, and custom-designed to the client's specifications. Systems include pump check and altitude valve control systems, water bladder accumulator systems, back up power supply systems, low-pressure and high pressure hydraulic accumulator systems, and custom-designed control panels.

The Pratt Series EH system is an electro-hydraulic actuator that combines the power of hydraulic actuation with electrical reliability. This system is designed to provide high torque or linear thrust with pinpoint accuracy all in one complete robust package.

Pratt's Back Up Power Supply (BUPS) system is an inverter system that stores energy in a sealed maintenance free battery. When an electric power failure occurs, this stored energy will be converted to drive the customer's existing electric actuator to a "Fail Safe" position, or to continue modulating for a period of time in order to accomplish an orderly shutdown of their processes. The power system can be used with all Pratt Control Systems or any electric actuator.

Specialty Valves/Products

No matter what type of valves your project demands, chances are excellent Pratt has the right valve for your specific application. We've continually expanded our product line throughout the years based on your needs. Our full line of specialty products includes:

- Industrial Valves
- Fire protection Valves
- Nuclear Valves
- Energy Dissipating Valves
- Sleeve Valves
- Rectangular Valves
- Cone Valves
- Valve Actuators
- Control Systems
- Disc Locking Devices

Pratt Services

Henry Pratt remains dedicated to responding to your needs with products and services that set the standard for the industry. We are proud of our custom capabilities, our innovative technologies and our relationships with our customers.

Pratt's services include:

Field Service — Pratt's experienced Field Service technicians can help you with project start-up, warranty issues, repairs, and refurbishment projects.

Aftermarket Sales — Whenever you need replacement valve parts or a major valve repair, call the valve experts. Henry Pratt can rebuild most existing AWWA Butterfly Valves, C507 Ball Valves, Cone Valves, Plug Valves, Rectangular Valves, Gate Valves, Sleeve Valves, Fixed Cone Valves and all types of Operators and make them function as brand new. We stand behind our work by providing a new valve warranty with every valve refurbishment. Replacement parts are available for both past and present designs for every Henry Pratt valve.

Engineering — From beginning to end, Henry Pratt's engineering staff monitors the design and manufacturing process. All engineering drawings and specifications are thoroughly reviewed before production to determine the most efficient way of satisfying the design requirements and dimensional tolerances of each particular product.

Nuclear — For more than half a century, Henry Pratt Company has been supplying butterfly valves to the Nuclear Power Industry. Most of the Pratt valves furnished in the 1960s are still in service today, having little or no maintenance over the years. Our in-house Nuclear Aftermarket Department and outside sales force provide superior service nationwide. Whether you require spare parts, replacement valves, or just sound advice, Pratt is ready to respond.

Pratt also performs EPRI based modifications that are consistent with the Performance Prediction Program. MOV upgrade capabilities include:

- *EPRI Modifications*
- *Certified Hardfacing*
- *Heat Treating and NDE*
- *MPR Formatted Documentation*
- *Reverse Engineering*

HENRY PRATT PRODUCT LINES & PRIMARY MARKET APPLICATIONS

	MARKETS					
PRODUCTS	Fire Protection	Power	Wastewater Treatment	Water Distribution	Water Treatment	**SIZE RANGE**
Aftermarket Sales	▪	▪	▪	▪	▪	
Air Valves			▪	▪	▪	Various
Ball Valves						
Metal Seated			▪	▪	▪	6" – 48"
Rubber Seated			▪	▪	▪	4" – 60"
Butterfly Valves						
Groundhog® Butterfly 150B			▪	▪	▪	4" – 72"
HP-250™ Butterfly 250B			▪	▪	▪	4" – 48"
HP-250II™ Butterfly 250B			▪	▪	▪	3" – 72"
HP-350™ Butterfly 250B			▪	▪	▪	6" – 48"
Indicating Butterfly (IBV®)	▪					6" – 24"
Industrial Butterfly 150 psi Rubber Seat			▪		▪	2" – 48"
Industrial ANSI Rated Butterfly						
ANSI Class 150 & 300			▪		▪	2" – 48"
MKII™ (Monoflange) Butterfly 150B		▪	▪		▪	3" – 20"
Post Indicating Butterfly Valves (PIVA®)	▪					4" – 24"
Rectangular Butterfly		▪	▪		▪	3' – 16' Square
Triton XL™ Butterfly 25B, 75B, 150B		▪				24" – 144"
Triton XR 70™ Butterfly 25B, 75B, 150B		▪	▪		▪	24" – 72"
2FII™ (Flange) Butterfly 150B		▪	▪		▪	3" – 20"
Check Valves						
Compact Wafer/Silent Checks		▪			▪	2" – 12"
Double Disc		▪	▪	▪	▪	2" – 12"
Globe Style					▪	2" – 24"
RD™ Series			▪	▪	▪	2" – 24"
Swing Check			▪	▪	▪	2" – 72"
Tilting Disc				▪	▪	4" – 60"
Specialty Valves & Systems						
Cone Valves			▪		▪	8" – 48"
Control Systems		▪	▪	▪	▪	
Energy Dissipaters/Control Valves		▪	▪	▪	▪	Various
Fixed Cone Valves						6" & Larger
Nuclear Butterfly		▪				6" – 60"
Sleeve Valves		▪			▪	12" – Larger
Other						
Parts	▪	▪	▪	▪	▪	
Repair Services	▪	▪	▪	▪	▪	
Plug Valves			▪		▪	1/2" – 72"

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Mueller Co.
Reliable Connections™