

Consolidated

a Baker Hughes business



Consolidated™ 1900-UM Series

The 1900 UM offers an innovative solution
for multi-phase process applications



Industry Leadership

Innovation

Baker Hughes furthers our industry leadership and technology innovation with the Consolidated 1900 Series Universal Media pressure relief valve. The first valve in the industry capable of interchangeably handling liquid and/or vapor without adjustments, it offers an innovative solution for multi-phase process applications.

The 1900 Series Universal Media valve is engineered for exceptional performance and smooth operation. It can help you reduce inventory while providing one of the lowest blowdown rates in the industry for profit protection. Plus, it is certified and in compliance with the standards required for your application.

Media Flexibility

The 1900 Series Universal Media valve is certified for both liquid and vapor. This advanced technology valve can seamlessly change from one medium to another without requiring adjustments, whether you have a multi-phase process, or multiple processes running at the same temperature and pressure with different media. It goes beyond specifications for dual media valves to deliver a custom, quality solution for multi-phase or multiple process applications.

Excellent Performance

Exceeding the blowdown rate of other valves by about 200 percent, the 1900 Series Universal Media valve can be counted on to deliver exceptional performance and reduce the loss of valuable product, helping you to reduce the cost of ownership. It is expertly engineered with innovative bore and flow path designs for smoother operation. What's more, it offers low noise levels even when handling vapor.



Technology Innovation

Simplicity

The 1900 Series Universal Media valve can seamlessly handle both liquid and vapor results in simplified inventory management, operations and maintenance. By serving both functions, one valve helps to save money and time while reducing complexity. It also simplifies the selection process. Vapor and liquid trim variations are eliminated and replaced with the Universal Media trim for easy configurability and a smooth fit in multi-phase process applications.

- Having only one valve to handle both media interchangeably saves time and money
- Easy maintenance
- Simplified inventory management
- Reduces trim variations for configurability

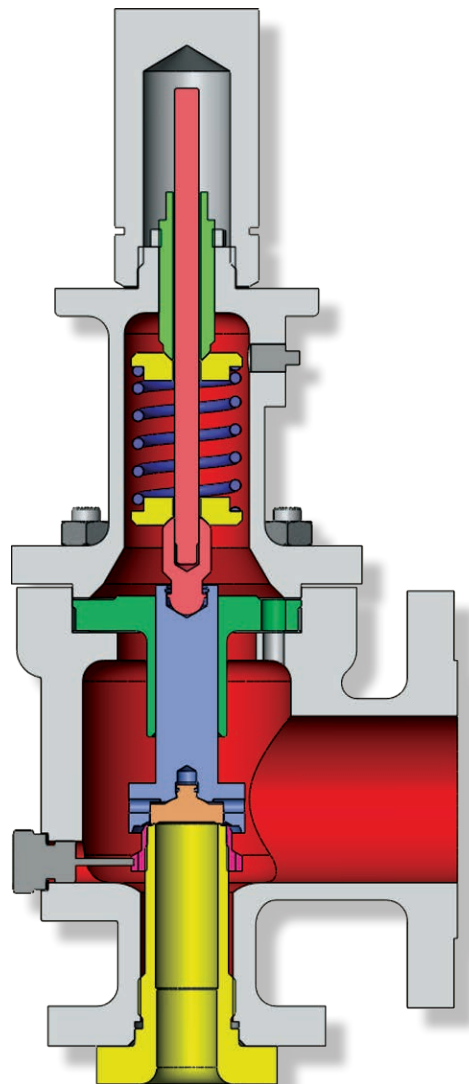
Rugged Durability

The 1900 Series Universal Media valve builds on the reliability of the Consolidated 1900 Series. It is equipped with corrosion-resistant trim as well as a carbon steel body, bonnet and cap. Plus, the nozzle is bottom-inserted and rigidly held in position providing a corrosion-resistant flow path and seating surfaces.

- Equipped with corrosion-resistant trim as well as a carbon steel body, bonnet and cap
- Nozzle is bottom-inserted and rigidly held in position for a corrosion-resistant flow path and seating surface

Configurability

Baker Hughes offers the 1900 Series Universal Media valve in a range of standard and custom configurations to fit easily and conveniently into most applications. It comes in the same familiar and popular configurations available for the 1900 Series valve.



Expertly Engineered

Operating Envelope	
Inlet Sizes	1" through 12" in either flanged, Grayloc or sanitary fitting design
Inlet Ratings	ANSI Class 150 through 2500
Outlet Sizes	2" through 16" flanged
Outlet Ratings	ANSI Class 150 and 300
Orifice Sizes	Sixteen sizes: D through W
Set Pressure Range	4 psig (.275 bar) to 6,250 psig (430.9 bar)
Temperature Range	-450°F (-267°C) to 1,500°F (815°C)
Materials	Standard: Cast carbon steel body with stainless steel trim. Special alloys are available for specific applications.
Codes	Certified to ASME Sections III and VIII; complies to API 526, 527, PED, EN/ISO 4126, and many local standards.

Performance Characteristics

		Set Pressure	Blowdown	K_d (DISCHARGE COEFFICIENT)
1900 Universal Media (UM) Trim	On Vapor	$\pm 3\%$ or ± 3 psi	3 - 6%	0.950 (avg.)
	On Liquid	$\pm 3\%$ or ± 3 psi	Less than 10%	0.744 (avg.)