

Consolidated™ 1900 Dual Media Series Safety Relief Valve

With the Eductor Tube Advantage™

The 1900 Dual Media (DM) Series patented trim is engineered to perform on both liquid and/or gas media and is Dual Certified to meet dual media (liquid and gas) nameplate capacity stamping per ASME B&PVC Code Case 2787. The 1900 DM trim is ideal for any liquid or gas application, two-phase liquid and gas, flashing or multiple relief case scenarios.

Features & Benefits

- The 1900 Dual Media (DM) is the first and only spring-loaded safety relief valve in the industry that is “Dual Certified”, as defined by API Standard 520 Part 1, 10th Edition – Sizing and Selection. Dual Certified is defined as pressure relief valves that are both vapor/gas flow certified, and liquid flow certified where dual certification is achieved without making any modifications or adjustments to the relief device when switching fluids during the flow testing.
- Set Pressure Performance – Opens within ASME B&PVC Section VIII tolerances on gas and/or liquid media. Typically, PRVs set on liquid will pop up to 5% lower on a gas. This can cause premature leakage and opening when a gas relief scenario is occurring.
- Stable, chatter free, opening and closing while relieving gas, liquid or two-phase mixtures.
- Most liquid certified PRVs relieving a gas have blowdown ranging from 25-30%. The 1900 DM trim has exceptional fixed blowdown performance on liquid and on gas media, greatly reducing the loss of valuable process media and reducing fugitive emissions while providing reliable process efficiency.
- 1900 DM Blowdown Performance – Gas and Liquid
 - All Orifices O-ring Seat (DA) <15%
 - D/E/F Orifice Metal Seat <15%
 - G-W Orifice Metal Seat <10%
- 1900 DM features a patented Cryodisc design that provides superior seat tightness performance in low temperature cryogenic applications.



Specifications

Inlet Sizes:	1 in through 12 in (25 mm through 305 mm)
Outlet Sizes:	2 in through 16 in (50 mm through 406 mm)
Inlet Ratings:	ASME Class 150 through 2500, API 6A 10K & 15K
Outlet Ratings:	ASME Class 150 and 300
Orifice Sizes:	17 sizes: D through W
Seat Designs:	Metal and soft seat
Pressure Ratings:	4 psig to 10,000 psig (0.28 barg to 689.5 barg)
Temperature Range:	-450°F to 1500°F (-267.8°C to 815.6°C)
Materials:	Carbon steel body with stainless steel trim (standard). Optional materials available.

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Standards and Regulation Compliance

Standard/Regulation	Authority	Applicability
ISO 9001	International Organization for Standardization (ISO)	Standard
ISO 14001	International Organization for Standardization (ISO)	Standard
ASME B&PVC, Section VIII (Gas & Liquid Service)	The National Board of Boiler and Pressure Vessel Inspectors	Standard
ASME Code Case 2787 - Dual Capacity Stamping	American Society of Mechanical Engineers	Standard
ASME B16.34	American Society of Mechanical Engineers	Standard
ASME B16.5	American Society of Mechanical Engineers	Standard
API 520, 521, 526, 527	American Petroleum Institute	Standard
CRN	Canada	As Required
NACE MR0175	Nace International Institute	As Required
NACE MR0103	Nace International Institute	As Required
PED 2014/68/EU	Pressure Equipment Directive European Union	As Required
ISO 4126-4	International Organization for Standardization (ISO)	As Required
Customs Union Technical Regulation (CU TR)	Customs Union	As Required
AQSIQ - China Manufacturing License	State Council of the People's Republic of China	As Required
Australian Standards	Council of Standards Australia	As Required
NORSOK	Norwegian Petroleum Industry	As Required
ATEX 2014/34/EU Zone 2 Group 2 Category 3	European Union	As Required
49 CFR 192.199	U.S. Department of Transportation (D.O.T.)	Standard
Korean High Pressure Gas Safety Control Act	Korea	Standard