

A-719-ML/A-190 Dual Valve System

Midland's Dual Valve System integrates our technical experience and expertise in TIH applications into the most advanced design yet to support safe transportation of Chlorine by rail.

Shear-Off Protection

The A-719-ML Angle Valve paired with the A-190 Check Valve provides protection from the release of tank contents in the event of a rollover accident. If the Angle Valve shears off, the Check Valve maintains the primary seal.

Ease of Installation and Service

The A-190 check valve installs through the top of the cover plate allowing for the service or replacement of the valve without having to remove the cover plate or to cut the valve.

Meets Your Operation and Loading Requirements

The new Dual Valve System allows for a full complement of four valves within 18-inch or larger cover plates while providing the industry's highest flow.

Features & Benefits

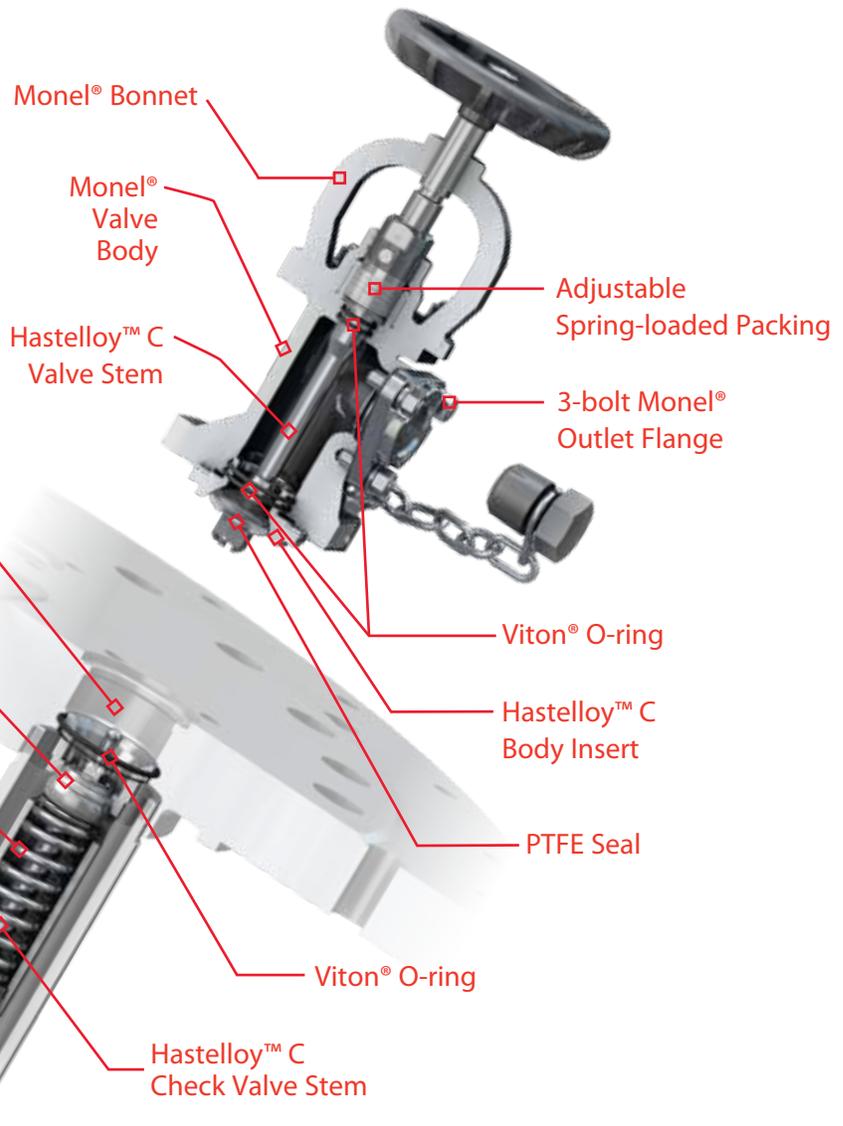
- Midland Design and Engineered – optimized for temperature, pressure, vibration and flow performance
- Premium Alloy Body and Wetted Parts – ensures safety and compatibility for chlorine service
- Top-Install Check Valve – provides ease of installation and service
- Innovative Check Valve Design – flow path reduces flashing by the check valve spring
- Compact Design with Maintained Performance – facilitates operational requirements for efficient loading and unloading with four valves AND allows for the use of existing Hazmat emergency procedures and capping kits
- Incorporates Chlorine Institute Pamphlet 168 Dual Valve Requirements – ensures the user that the expertise of the collaborative, collective industry is built-in to the design
- Integrally Designed Accessories and Components – makes the implementation of the Midland A-719-ML/A-190 Dual Valve System complete and easy



A-719-ML/A-190 Dual Valve

Technical Specifications

- AAR Approval applied for
- Flow Coefficient (C_v) = 21
- Max operating pressure 500 psig.
- 1" FNPT plated outlet connection
- Max operating temperature 350°F
- Teflon® Angle Valve coating
- Minimum angle valve wall thickness 5/16"



Check Valve installs through top of Pressure Plate

PTFE Seal

Inconel® Spring

Hastelloy™ C Check Valve Body

Integrally designed Coupler

Adjustable Spring-loaded Packing

3-bolt Monel® Outlet Flange

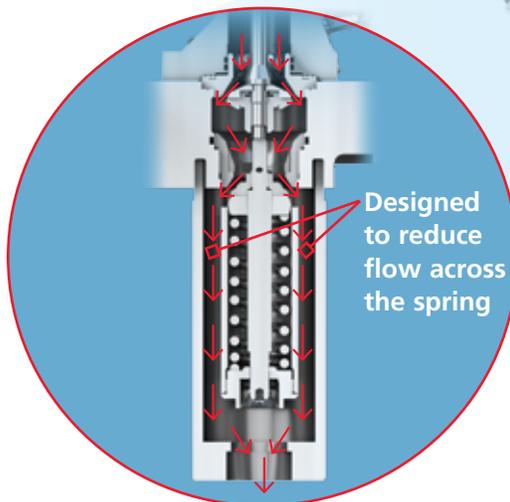
Viton® O-ring

Hastelloy™ C Body Insert

PTFE Seal

Viton® O-ring

Hastelloy™ C Check Valve Stem



Designed to reduce flow across the spring

Dual Valve System	
Component	Part Number
Angle Valve	A-719-ML
Check Valve	A-190
Cover Plate	9300-CS
Coupler	190-13-CS
Assembly Tool	T-190



Complete Midland Chlorine Package includes:

- A-14378-ML Pressure Relief Valve
 - 375 psig. external style
 - 7299 scfm
 - AAR# 082006
 - Hastelloy™ C Trim

Contact Midland for additional information