



A new chlorine top tank car valve for improved rail transportation safety

descote is known worldwide by the chemical industry as THE VALVE SPECIALIST for HAZARDOUS MEDIA. descote valves are recognized for their long-term reliability and safe operations.



descote tank car valves have been in service for more than 20 years on chlorine, Anhydrous HF and Anhydrous HCl in North & Middle America.

Since the beginning, as a major improvement, these valves were specified and designed with bellows seal to eliminate stem packing leakage. It also contributed to life operation extension.

descote top tank car valves are AAR approved since 1991 and contribute to the safety and efficiency of hazardous and toxic chemical transportation. They also comply to CI Pamphlet 168 recommendations.

Today, descote offers a positive answer to rail transport concern for the potential risks of toxic atmospheric release in case of derailment.

The new descote chlorine manual valve has been designed with a dual closing device : a combination of a main manual angle valve – Model 922 – and a spring-loaded internal ball check valve – Model 926.



- Rated -40°F to +250°F at 500 psiG
- 0 ppm stem emission with extended bellows life
- “Bubble tight” closure flow path
- High unloading/loading flow capacity
- Internal ball check valve installed under cover plate. This device is the proven best available technology on Anhydrous HF and Anhydrous HCl P.O.V. since 1992.
- Handwheel designed for direct POWEL remote operation device fitting
- Heavy duty design for durability
- AAR approval N°E-079010
- Chlorine Institute Pamphlet 168 compliance
- Chlorine emergency capping kit compatibility

www.descote.com

Top tank car valve – Model 922

Technical data

Features

Ease of operation

- Stem thread and yoke bushing fully enclosed and protected from harsh environment
- Position indicator as anti-rotation stem device to avoid bellows torsion
- Non rotating, one piece, smooth finished stem

Zero atmosphere emission

- Stem sealed with multi-ply bellows
- Secondary stem sealing by emergency stuffing box
- Easy removable stem-bellows for maintenance

Zero seat leakage

- Dual primary seal : metal/metal knife effect and soft PTFE disc seat
- Secondary seal : PTFE reinforced graphite ball and Hastelloy C seating
- High strength inconel 600 spring

Dimensions

	mm	inch
H open	330	13"
V	140	5" 1/2
Flow coefficient (CV) USgpm		16

Materials selection

	ASTM Standards
Body & bonnet	A350 LF2
Disc & disc seat	Hastelloy C276/PTFE
Bellows	Hastelloy C276
Stem	Hastelloy C276
Body seats	Valve = stellite / Check = Hast. C
Gasket & packing	PTFE
Spring check	Inconel 600

Inspection & quality control

descote production specifications have very strict non destructive testing & examination requirements. They are based upon national & international standards : API 600, ASME B31.3 and ASME V.

- + industrial standards such as EuroChlor, Chlorine Institute...
- + customers specific requirements
- + our own industrial experience

These requirements are systematically used and include the following examinations :

X-ray, U.S., magnetic particle, dye-pen on welds and machined parts, wall thickness, dimensions, surface finish and leak testing.

descote provides this high level of inspection and quality control to complement customer specifications.

Valve preparation

- all components are degreased, cleaned and prepared for chlorine service
- Valves are oven dried for 3 hours and sealed before shipment

Pressure tests

All valves are pressure tested according to international standards.

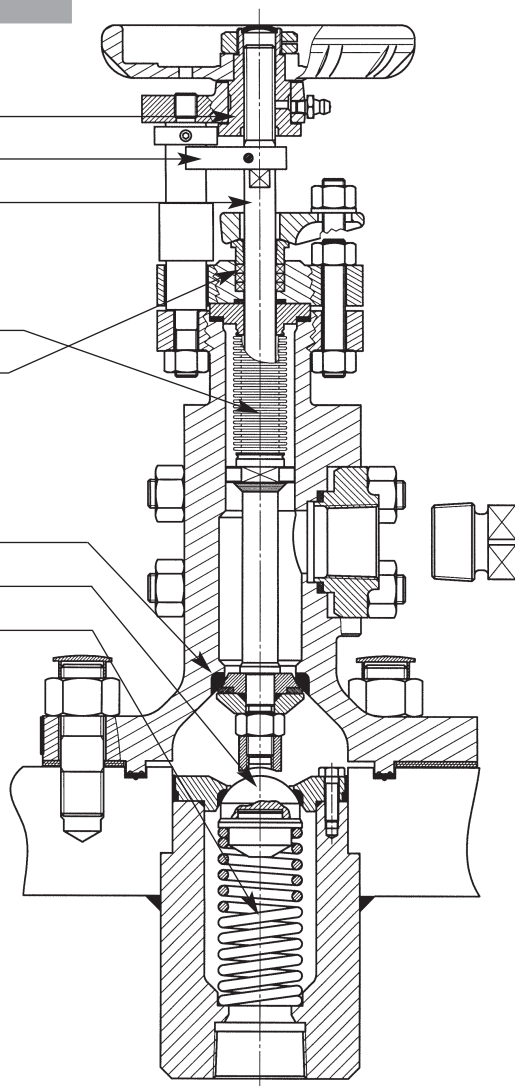
In addition, we systematically perform

- 100% HP gas seat test with acceptance criteria of 0 bubble during 2 minutes only. This testing ensures zero seat leakage on every valve delivered.

Certificates and traceability

descote applies the ISO 9001 standard to complete production process. This procedure systematically includes a unique serial number and C.M.T.R's for traceability of materials, tests, examinations and controls.

- The valve serial number provides full traceability for the lifetime of the valve
- Body material and pressure/temperature limitation markings strictly follow AAR specification.



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