

## A-22075/A-22076 High-Flow Pressure Relief Valves for Crude Oil and Ethanol

### High-Flow Pressure Relief Valves Exceed Requirements for Crude Oil and Ethanol Tank Cars

Recommendations from the Federal Railroad Association's (FRA) Design Working Group, using information gathered by the FRA's Analysis of Fire Effects on Tank Cars (AFFTAC) program, dictate that the required maximum start-to-discharge pressure of a pressure relief valve be 75 psi in the instance of an accident resulting in a pool fire. In addition, it has been determined that a minimum flow capacity of 27,000 scfm is required in order to reach the 100-minute survival time in a pool fire.

Midland Manufacturing's A-22075 Pressure Relief Valve has been developed to meet and surpass these new recommendations. As part of Midland's High-Flow Family of Pressure Relief Valves (PRVs), the A-22075 is constructed of carbon steel with a stainless-steel stem and retainer that help reduce the possibility of corrosion. The construction of the A-22075 allows for compatibility with a wide variety of commodities, aiding in the product's versatility for the shipper and improving safety.

The A-22076 Pressure Relief Valve builds on the success of the A-22075, but incorporates a 17-4 stainless-steel spring to combat corrosion caused by hydrogen sulfide, electrolers nickel plates and salts.

**High-Flow PRV is the recommended valve for shipping light crude, and Class 3, Packing Group I and II flammable commodities**



AAR Approval  
No.: PRD122007

#### Features

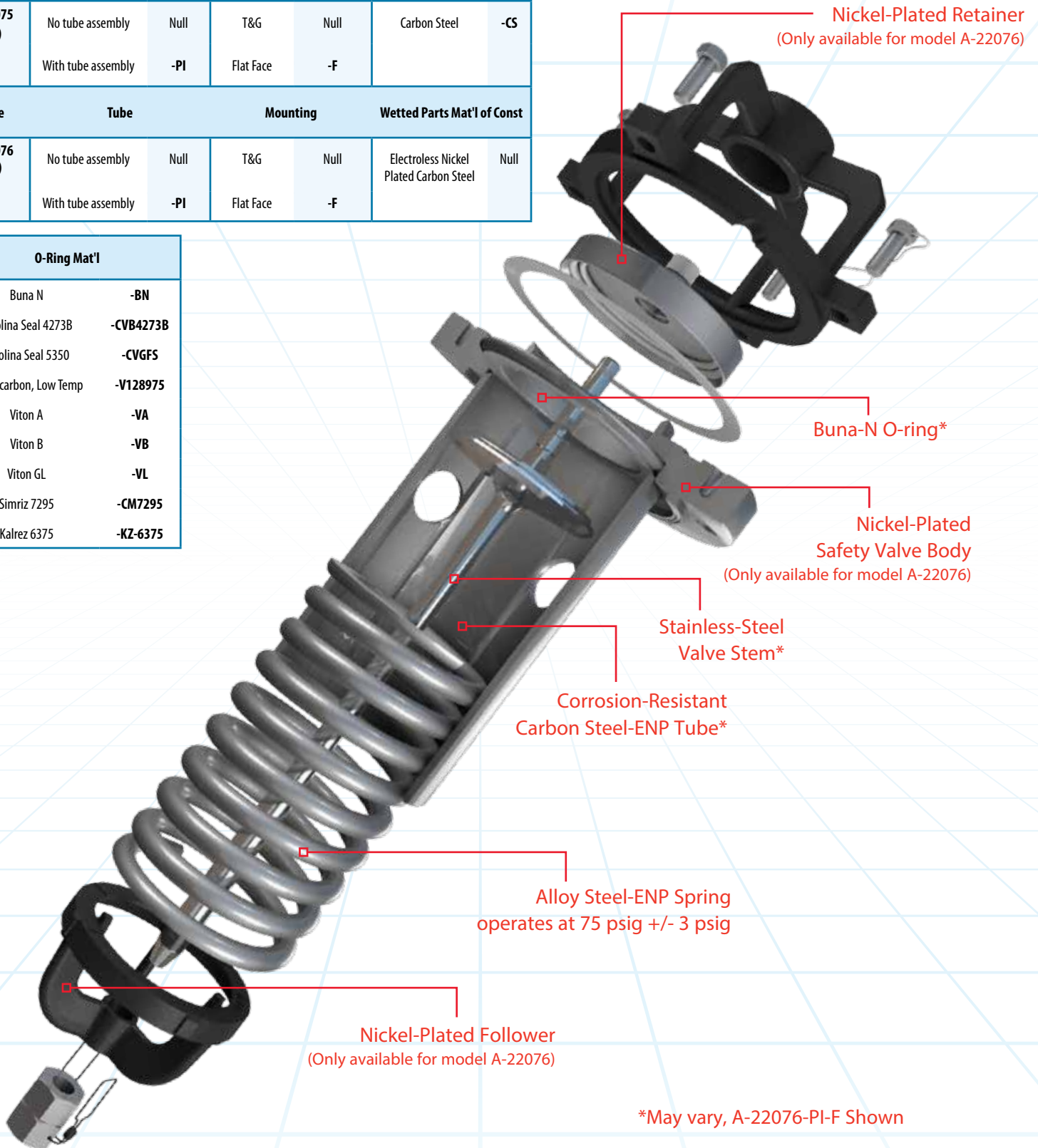
- 75 psig set-to-discharge
- Standard materials selected for today's crude and ethanol service
- Flow rating of 29,550 scfm (without flue)
- Optional guide tube allows mounting to pressure plate with no nozzle
- Version without guide tube is available for retrofit applications to railcars with nozzles
- Available in both tongue-and-groove and flat-face configurations
- Standard mounting-bolt circle allows for retrofit applications
- Easy-to-replace seal design
- Design compatibility with Midland's A-2000 family of Pressure Relief Valves



# A-22075/A-22076 High-Flow Pressure Relief Valves

Base	Tube		Mounting		Wetted Parts Mat'l of Const	
A-22075 (CS)	No tube assembly	Null	T&G	Null	Carbon Steel	-CS
	With tube assembly	-PI	Flat Face	-F		
Base	Tube		Mounting		Wetted Parts Mat'l of Const	
A-22076 (SS)	No tube assembly	Null	T&G	Null	Electroless Nickel Plated Carbon Steel	Null
	With tube assembly	-PI	Flat Face	-F		

O-Ring Mat'l	
Buna N	-BN
Carolina Seal 4273B	-CVB4273B
Carolina Seal 5350	-CVGFS
Flourocarbon, Low Temp	-V128975
Viton A	-VA
Viton B	-VB
Viton GL	-VL
Simriz 7295	-CM7295
Kalrez 6375	-KZ-6375



\*May vary, A-22076-PI-F Shown