

# EXTERNAL RELIEF VALVES

## External Relief Valves

Used on ASME and DOT containers, all working parts of these valves are outside the container connection so they must be protected against mechanical damage.

Protective caps are shipped with Fisher® brand external relief valves. Replacement caps may be ordered separately (refer below).



Small External Relief Valves						
TYPE NUMBER	CONTAINER TYPE	START-TO-DISCHARGE SETTINGS, PSIG (bar)	CONTAINER CONNECTION, INCHES	FLOW CAPACITY, SCFM (SCMH) AIR	ACCESSORY TYPE NUMBERS	
				UL	Pipeaway Adaptor	Protective Cap
H110-250	ASME	250 (17,2)	1/4 MNPT	310 (527)	P174 (1/2-inch FNPT)	P206
H135-250			1/2 MNPT	594 (1009)		
H160-250			3/4 MNPT	605 (1028)		
H185-250				2223 (3777)		
H185-275		275 (19,0)	3/4 MNPT	2456 (4173)	----	P145
H110-312		312 (21,5)	1/4 MNPT	390 (663)	----	P206
H135-312			1/2 MNPT	765 (1300)	P174 (1/2-inch FNPT)	
H160-312			3/4 MNPT	765 (1300)		
H148	DOT and Hydrostatic Relief		375 (25,9)	1/2 MNPT	903 (1534) <sup>(1)</sup>	
H173		3/4 MNPT				
H123		1/4 MNPT				
H120-120	Hydrostatic Relief	120 (8,3)	1/4 MNPT	166 (282)	----	P206
H124		450 (31,0)	1/4 MNPT			
H144			1/2 MNPT			
H174			3/4 MNPT			

1. DOT cylinder water capacity 500 pounds (227 kg), approved by Bureau of Explosives and CGA.

## Relief Valve Manifold

The **H500 Series** Combo Joe® Relief Valve Manifold contains four standard style relief valves (either the H282 or H5112 Series) suitable for stationary bulk storage. For tank size, surface area are up to 2142 and 6311 ft<sup>2</sup> (199 and 586 m<sup>2</sup>) for LP-Gas and (NH<sub>3</sub>) service respectively. Any one of the four relief valves can be removed for inspection or maintenance without product evacuation of the tank.

Two handles open and close the manifold ports. The handle direction points to the closed port (relief valve). A built-in bleed in the port shutoff mechanism permits a closed port to be quickly reopened.

The H500 Series manifold is available with either brass trim for LP-Gas service or stainless steel for Anhydrous ammonia (NH<sub>3</sub>) service.



H500 SERIES

Relief Valve Manifold					
TYPE NUMBER	SURFACE AREAS <sup>(1)</sup> , FT <sup>2</sup> (m <sup>2</sup> )	TANK CONNECTION, INCHES (mm)	START-TO-DISCHARGE SETTING, PSIG (bar)	RELIEF VALVE TRIM	FLOW CAPACITY IN SCFM (SCMH) AIR
H530-250	1838 (171)	3 (80)	250 (17,2)	Brass	25 479 (43 289)
H531-265	1967 (183)	3 (80)	265 (18,3)	Stainless steel	26 935 (45 763)
H540-275	2054 (191)	4 (100)	275 (19,0)	Brass	27 905 (47 411)
H541-265	1967 (183)	4 (100)	265 (18,3)	Stainless steel	26 935 (45 763)

1. Based on published LP-Gas service capacities.