



Relief Valves for Mobile Tanks and Transports

Primarily for trucks transporting LPG, Anhydrous Ammonia (NH₃) or other compressed gases.

Types H722, H733 and H5118 stainless steel relief valves resist rust and corrosion, including a 300 Series stainless steel spring for additional resistance to product contaminants. A thickly molded main seal improves service life and resistance to severe applications. Stainless steel makes it easy to remove the valve from the tank for periodic testing (as prescribed by DOT) and permits standard tank couplings instead of the more costly flanged tank openings. The Type H733 has an optional CL300 RF Flange connection. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

Type H5118: Semi-Internal relief valve for 2 in. threaded recessed well-head connections on transports.

Tight fitting protective caps (Types P297, P298 and P299) are standard on the valve to ensure no debris blocks the valve discharge. Standard setpoints listed with UL for the Type H722 include 125, 156, 250, 265, 275 and 312 psig / 8.6, 10.8, 17.2, 18.3, 19.0 and 21.5 bar. Standard set points listed with UL for the Types H733 and H5118 include 250 and 265 psig / 17.2 and 18.3 bar. All set points between 100 and 400 psig / 6.9 and 27.6 bar are available with ASME approvals.

A 1-1/2 and 2-1/2 in. hex size (Type P304 or P305) wrench can be inserted into the valve socket when installing/removing the valve to provide a means of attaching a standard wrench.

UL® Approved Internal Relief Valves							
TYPE	CONTAINER CONNECTION, IN.	START-TO-DISCHARGE SETTING		FLOW CAPACITY, SCFM / SCMH AIR		FOR TANK WITH AREA UP TO ⁽³⁾ : Ft ² / m ²	PROTECTIVE CAP (INCLUDED)
		psig	bar	UL	ASME		
H722-250	2 MNPT ⁽¹⁾	250	17.2	3635 / 6176	3203 / 5136	171 / 15.9	Type P297
H722-265		265	18.3	3556 / 6042	3386 / 5753	166 / 15.4	
H722-275		275	19.0	3714 / 6310	3508 / 5960	175 / 16.3	
H733-250	3 MNPT ⁽²⁾	250	17.2	10,150 / 17,245	9369 / 15,918	598 / 55.6	Type P298
H733-265		265	18.3	10,940 / 18,587	9904 / 16,827	655 / 60.9	
H733F3-250	3 in. CL300 RF Flange	250	17.2	10,150 / 17,245	9369 / 15,918	598 / 55.6	Type P298
H733F3-265		265	18.3	10,940 / 18,587	9904 / 16,827	655 / 60.9	
H5118-250 ⁽⁴⁾	2 MNPT	250	17.2	10,530 / 17,891	9724 / 16,521	625 / 58.1	Type P299
H5118-265 ⁽⁴⁾		265	18.3	11,300 / 19,199	10,280 / 17,466	681 / 63.3	

1. Order Type P304 (1-1/2 in. hex bar) installation wrench.
 2. Order Type P305 (2-1/2 in. hex bar) installation wrench.
 3. Based on UL flow capacities.
 4. Use with a 3.5 in. hex size installation tool.

Internal Relief Valves				
TYPE	CONTAINER CONNECTION, IN.	SPRING RANGE ⁽³⁾ , psig / bar	MATERIAL OPTION	ASME FLOW RATE FACTOR ⁽⁴⁾
H822-1	2 MNPT ⁽¹⁾	100 to 150 / 6.9 to 10.3	Standard - Nitrile (NBR) E - EPDM K - Kalrez® N - Neoprene (CR) V - Viton®	10.18
H822-2	2 MNPT ⁽¹⁾	151 to 250 / 10.4 to 17.2		
H822-3	2 MNPT ⁽¹⁾	251 to 400 / 17.3 to 27.6		
H833-1	3 MNPT ⁽²⁾	100 to 149 / 6.9 to 10.3		29.77
H833-2	3 MNPT ⁽²⁾	150 to 200 / 10.3 to 13.8		
H833-3	3 MNPT ⁽²⁾	201 to 275 / 13.9 to 19.0		
H833-4	3 MNPT ⁽²⁾	276 to 330 / 19.0 to 22.8		
H833-5	3 MNPT ⁽²⁾	331 to 400 / 22.8 to 27.6		
H833F3-3	3 CL300 RF Flange	201 to 275 / 13.9 to 19.0	Standard - Nitrile (NBR) N - Neoprene (CR)	30.90
H8118-3 ⁽⁵⁾	2 MNPT	201 to 275 / 13.9 to 19.0		

1. Order Type P304 (1-1/2 in. hex bar) installation wrench.
 2. Order Type P305 (2-1/2 in. hex bar) installation wrench.
 3. ASME-Approved set points approved within these spring ranges.
 4. ASME Flow Capacity (SCFM Air) = [Set Pressure (psig) * 1.2 + 14.7] * ASME Flow Rate Factor.
 5. Use with a 3.5 in. hex size installation tool.