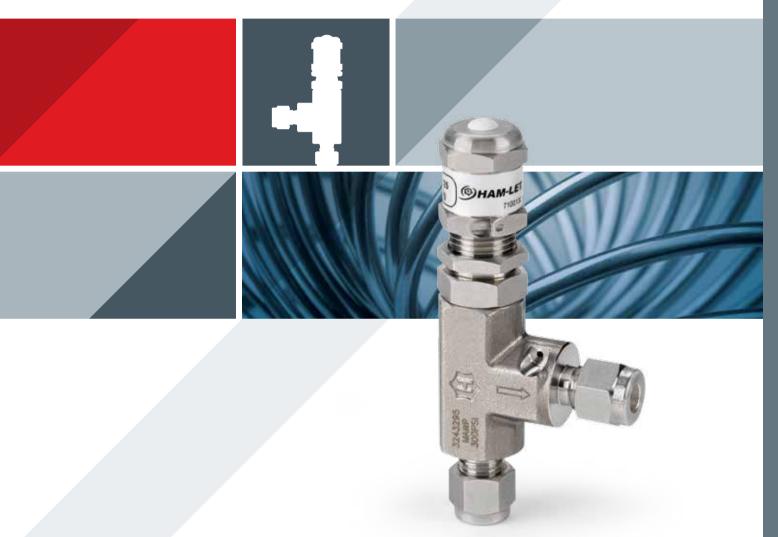
VALVES & ACTUATORS

RELIEF VALVES

H-900 SERIES





FEATURES

- H-900 is available as CE/PED products
- 316 St.St. Construction
- Service 10-225 psi
- MAWP* 300 psi
- One spring for all set pressure range
- Available in all pipe threads and LET-LOK® connectors
- Sizes range: 1/4" to 1/2" or 6mm to 12mm

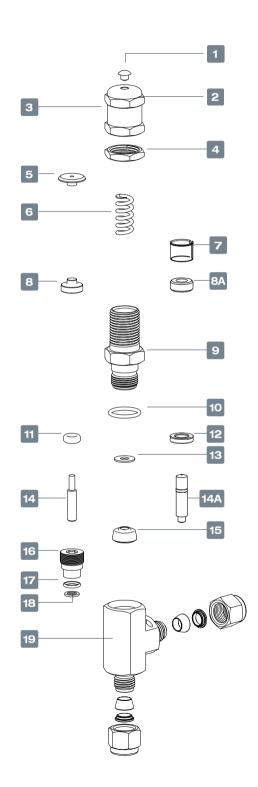
GENERAL

The H-900 series is a relief valve for low pressure service.

The valve is normally closed. It will open when the system pressure reaches the set level. It will re-close when the system pressure falls below the set level.

MATERIALS OF CONSTRUCTION							
Item No.	Components	Qty.	1/4 " Body Size	1/2 " Body Size			
1	Cap Plug	1	Polypropylene	Polypropylene			
2	Adjustment Cap	1	St.St. 316	St.St. 316			
3	Cap Lable	1	Polyester	Polyester			
4	Locking Nut	1	St.St. 316	St.St. 316			
5	Upper Spring Button	1	St.St. 316				
6	Spring	1	St.St. 302	St.St. 302			
7	Spring sleeve	1		St.St. 302			
8	Lower Spring Button	1	St.St. 316				
8A	Lower Spring Button	1		St.St. 316			
9	Bonnet	1	St.St. 316	St.St. 316			
10	O-ring	1	Fluorocarbon FKM	Fluorocarbon FKM			
11	O-ring	1	Fluorocarbon FKM				
12	Quad ring	1		Fluorocarbon FKM			
13	Retaining Ring	1	St.St. 316	St.St. 316			
14	Stem	1	St.St. 316				
14A	Stem	1		St.St. 316			
15	Bonded Poppet	1	St.St. 316 Bonded with Fluorocarbon FKM	St.St. 316 Bonded with Fluorocarbon FKM			
16	Insert	1	St.St. 316				
17	Packing	1	PTFE				
18	Ring	1	St.St. 316				
19	Body	1	St.St. 316	St.St. 316			

PRESSURE TEMPERATURE RATING							
Series	H-900 Size: 1/4" / 1/2"						
Seal Meterial	Fluorocarbon FKM	Buna N	Polychloroprene (CR)	EPDM			
TEMP °C (°F)	MAX SET PRESSURE psig (bar)						
-40 (-40)	-	-	-	-			
-34 (-30)	-	-					
-23 (-10)	-						
-18 (0)							
-12 (10)	225 (15.5)						
-4 (25)							
-1 (30)			225 (15.5)	225 (15.5)			
10 (50)		225 (15.5)	223 (13.3)				
65 (150)							
93 (200)							
121 (250)							
135 (275)							
148 (300)	-						



^{*} Maximum Allowed Working Pressure.

CLEANING & PACKAGING

Every H-900 series Relief valve is cleaned in accordance with Standard Cleaning and Packaging (procedure 8184). Oxygen Clean & Lubricant Free Cleaning and packaging, in accordance with Special Cleaning and Packaging (procedure 8185), is available as an option.

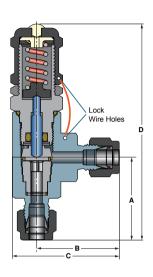
TESTING

The H-900 Relief Valve designs have been tested for Proof and Burst. Every H-900 Relief Valve is factory tested for proper assembly, set and resealing performance. No detectable leakage is allowed during shell test.

SETTING AND RESEALING PRESSURE

- Upstream set pressure is the first indicator of flow process. Every pressure relief after the first indication is repeatable within a deviation of 5% at room temperature.
- Blocked upstream set pressure is the first indicator of a stopped flow process and is always lower than the set pressure.
- Calculation of set pressure valve design demands back pressure consideration as the system back pressure increases the set pressure. To balance the system, the back pressure must be multiplied by 0.8 and the result shall be subtracted from the required set pressure.
- Lubricant free cleaned valves have higher reseal pressure

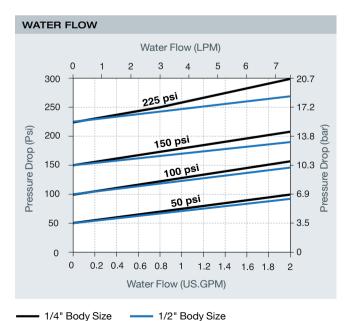
STANDARD CONFIGURATION DIMENSIONS													
Description	Connection / size		Oriffice		Dimensions								
	Inlet	Outlet	Offilice		А		В		С		D		
			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
H-900	1/4 LET-LOK	1/4 LET-LOK	4.8		37	1.45	39	1.53	50	1.97	96	3.78	
H-900	6MM LET-LOK	6MM LET-LOK		0.19	37	1.45	39	1.53	50	1.97	96	3.78	
H-985	1/4 Male NPT	1/4 Female NPT		0.19	32	1.26	30	1.18	40	1.57	88.6	3.49	
H-995	1/4 Male NPT	1/4 LET-LOK			32	1.26	39	1.53	50	1.97	88.6	3.49	
H-900	½ LET-LOK	½ LET-LOK			46.5	1.83	46.5	1.83	59.2	2.33	150	5.92	
H-900	12MM LET-LOK	12MM LET-LOK	6.4	0.25	46.5	1.83	46.5	1.83	59.2	2.33	150	5.92	
H-985	½ Male NPT	½ Female NPT		0.4 0.	6.4 0.25	36.3	1.43	36.3	1.43	49	1.93	140	5.52
H-995	½ Male NPT	½ LET-LOK			36.3	1.43	46.5	1.83	59.2	2.33	140	5.52	



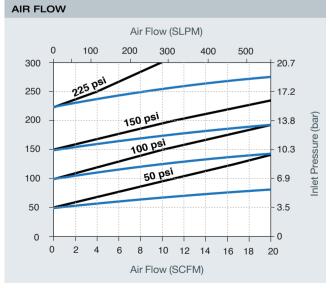
FLOW DATA AT 70°F (20°C)

Orifice in fully open mode is 4.8mm (0.19 inch)

SPRING 10-225psig



H900 RESEAL PRESSURE						
Series	Test Set Pressure psig (bar)	Min Resealing Pressure as a Percentage of set pressure, %				
H-900	10 - 20 (0.68 to 1.3)	50				
п-900	175 - 225 (12.0 to 15.5)	90				



APPLICATIONS

H-900 relief valves gradually open when pressure increases.

As such, they are not certified to ASME due to not having capacity rating at a given pressure rise (accumulation).

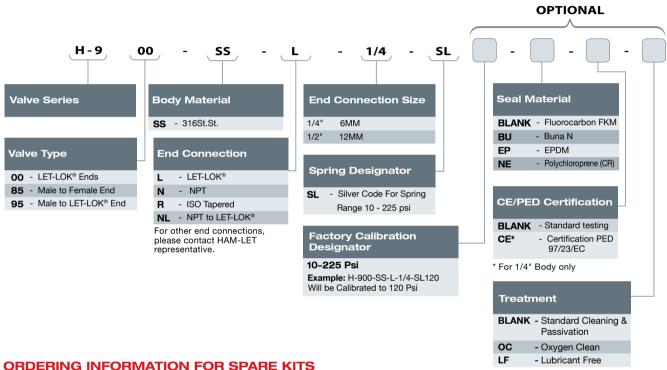
OPERATION

H-900 relief valves open when the system pressure gets to the set pressure and close when the system pressure drops below the set

Warning

- Valves that were not actuated for some time may contain pressure higher than the set pressure.
- System designer and users shall determine what system applications require using relief valves to meet specific safety codes and which valves conform to such codes.

H-900 SERIES ORDERING INFORMATION



SPRING KIT

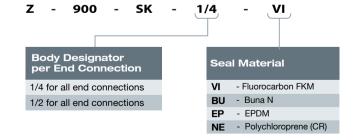
Includes: Spring, Label, Wire and Lock



■ For oxygen applications work shall be carried out according to procedures for working with oxygen. In case spare kits are ordered for oxygen clean valves, such kits have to be ordered as oxygen clean by adding "-OC" designator. Example: Z-900-SK-1/4-VI-OC

SEAL KIT

Includes: O-rings, Bonded Poppet and Label



The system designer and user have the sole responsibility for selecting products suitable for their special application requirements, ensuring their safe and trouble-free installation, operation, and maintenance. Application details, material compatibility and product ratings should all be considered for each selected product. Improper selection, installation or use of products can cause property damage or personal injury.

H-900, Rev.14, August 2015