



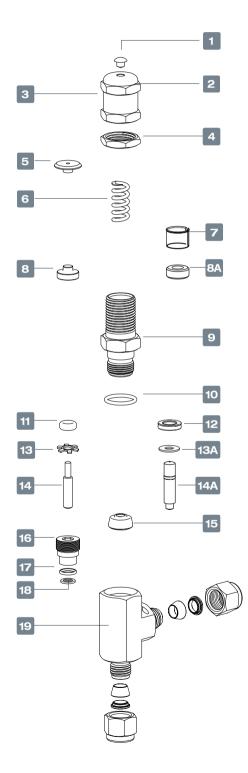
FEATURES

- St.St. 316 Construction
- Service 10-225 psi
- MAWP* 300 psi
- One spring for all set pressure range
- Available in all pipe threads and LET-LOK[®] connections
- Option to comply with standards CE/PED
- End connections: 1/4",1/2",6mm and 12mm

* Maximum Allowable Working Pressure.

MATERIALS OF CONSTRUCTION							
ltem 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				
11	O-ring	1	Fluorocarbon FKM -				
12	Quad ring	1	-	Fluorocarbon FKM			
13	Retaining Ring	1	PH15-7 Mo	-			
13A	Location Ring	1	-	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 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			

Series	H-	900 Body S	ize: 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)						
-4 (25)						
-1 (30)			225 (15.5)	225 (15.5)		
10 (50)	225 (15.5)	225 (15.5)	225 (15.5)			
65 (150)						
93 (200)						
121 (250)						
135 (275)						
148 (300)	48 (300) -					



GENERAL

The H-900 series is a relief valve designed for low pressure services. It is most suited for use where changes in pressure can cause process issues, system damage or personal injury.

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 is conducted in accordance with Special Cleaning and Packaging Procedure 8185.

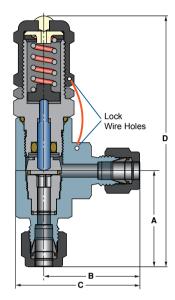
TESTING

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 the 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.

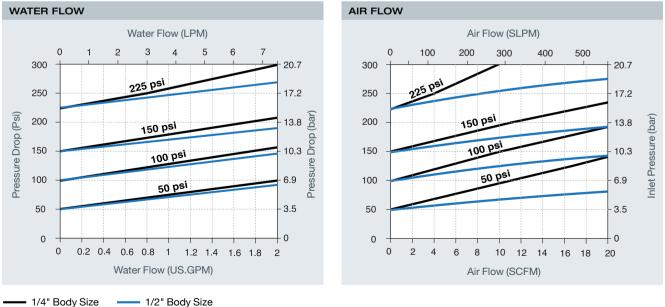
STANDARD CONFIGURATION DIMENSIONS														
	Connection / size		Orifice*		Dimensions									
Description	Inlet	Outlet			A		В		C		D			
			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
H-900	1/4 LET-LOK	1/4 LET-LOK			37	1.45	39	1.53	50	1.97	96	3.78		
H-900	6MM LET-LOK	6MM LET-LOK	4.8	10	0.19	37	1.45	39	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	1/2 LET-LOK	1/2 LET-LOK	6.4		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	610	0.25	46.5	1.83	46.5	1.83	59.2	2.33	150	5.92
H-985	1/2 Male NPT	1/2 Female NPT		0.25	36.3	1.43	36.3	1.43	49	1.93	140	5.52		
H-995	1/2 Male NPT	1/2 LET-LOK			36.3	1.43	46.5	1.83	59.2	2.33	140	5.52		



* Orifice in fully open position

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			
11-900	175 - 225 (12.0 to 15.5)	90			

FLOW DATA AT 70°F (20°C) SPRING 10-225psig





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APPLICATIONS

The H-900 is a relief valve and therefore is not certified to ASME due to not having capacity rating at a given pressure rise (accumulation).

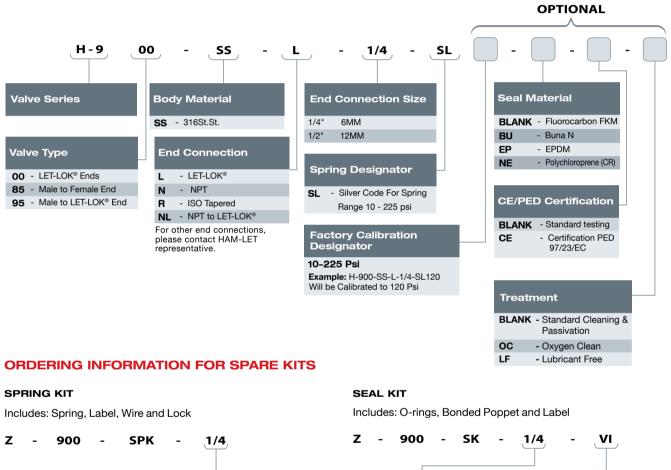
H-900 SERIES ORDERING INFORMATION

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 pressure.

Warning

- Valves that have not been actuated for some time may contain pressure higher than the set pressure.
- The system designer and user have the sole responsibility for selecting products that will conform to the specific safety codes appropriate for the system.







■ 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

Warning!

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.