VALVES & ACTUATORS

HIGH-PRESSURE RELIEF VALVES

H-900HP SERIES





FEATURES

- H-900HP is available as CE/PED products
- 316St.St. Construction
- Service up to 6000 psi
- Set Pressure from 50 psig to 6000 psig (3.50 to 414 bar)
- Identifying colored springs for each pressure range
- Replaceable springs for a variable pressure range
- Available in all pipe threads and LET-LOK® connectors
- Sizes: 1/4" or 6mm

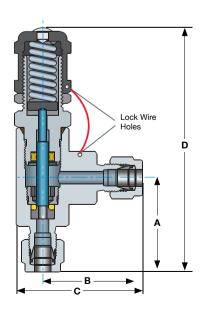
GENERAL

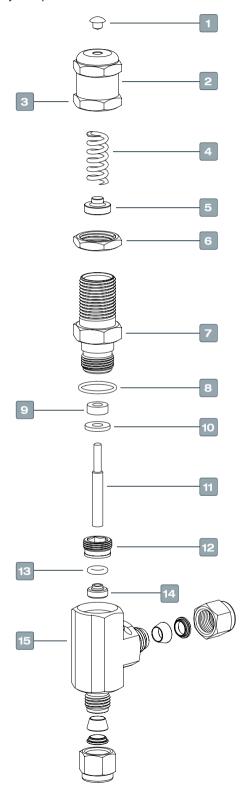
H-900 HP is a series of relief valves for high-pressure service. The valve is normally closed.

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.	Valve Body Material		
1	Cap Plug	1	PTFE		
2	Label	1	Polyester		
3	Adjustment Cap	1	St.St 316		
4	Spring	1	St.St. 302,17-7PH		
5	Lower Spring Button	1	St.St 316		
6	Locking Nut	1	St.St 316		
7	Bonnet	1	St.St 316		
8	O-Ring	1	Fluorocarbon FKM		
9	Quad Ring	1	Fluorocarbon FKM		
10	Retaining Ring	1	PH15-7Mo		
11	Poppet	1	St.St 316		
12	Clamps Screw	1	St.St 316		
13	O-Ring	1	Fluorocarbon FKM		
14	Insert	1	St.St 316		
15	Body	1	St.St 316		

	STANDARD CONFIGURATION DIMENSIONS											
		Connection / size			Dimensions							
	Description	inlet	outlet	Α		В		С		D		
				mm	inch	mm	inch	mm	inch	mm	inch	
	H-900HP	1/4 LET-LOK®	1/4 LET-LOK®	37	1.45	39	1.53	50	1.97	96.0	3.78	
	H-900HP	6MM LET-LOK®	6MM LET-LOK®	37	1.45	39	1.53	50	1.97	96.0	3.78	
	H-985HP 1/4 Male NPT 1/4 Female NPT H-995HP 1/4 Male NPT 1/4 LET-LOK®		32	1.26	30	1.18	40	1.57	88.6	3.49		
			32	1.26	39	1.53	50	1.97	88.6	3.49		





CLEANING & PACKAGING

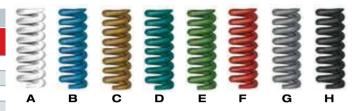
Every H-900HP series Relief valve is cleaned in accordance with Standard Cleaning and Packaging (procedure 8184). Oxygen Clean & Lubricant Free Cleaning and packaging, in accordance with Special Cleaning and Packaging (procedure 8185), is available as an option.

TESTING

The HAM-LET H-900HP Relief Valves design has been tested for Proof and Burst.

Every H-900HP Relief Valve is factory tested for proper set and resealing performance.

NOMINAL CRACKING PRESSURE RANGE					
psig	Bar	Spring Designator	Color		
50-350	3.4 - 24	Α	White		
350-750	24 - 51.5	В	Blue		
750-1500	51.5 - 103	С	Gold		
1500-2250	103 - 155	D	Turquoise		
2250-3000	155 - 206	Е	Green		
3000-4000	206 - 275	F	Red		
4000-5000	275 - 344	G	Silver		
5000-6000	344 - 413	Н	Black		



PRESSURE TEMPERATURE RATING					
Series	H-900HP Size: 1/4"				
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)			6000		
-4 (25)		6000 (413)	(413)		
-1 (30)	6000 (413)			6000	
10 (50)	(,			(413)	
65 (150)	5600 (386)	5600 (386)	5600 (386)	5600 (386)	
93 (200)	5200 (358)	5200 (358)	5200 (358)	5200 (358)	
121 (250)	4900 (338)	4900 (338)	4900 (338)	4900 (338)	
135 (275)			4700 (224)		
148 (300)	-	-	4700 (324)	-	

SETTING AND RESEALING PRESSURE

- Upstream set pressure is the first indicator of flow process.
 Every pressure relief after the first 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.
- Lubricant free cleaned valves have higher reseal pressure.

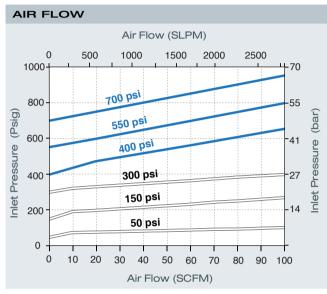
H-900HP RESEAL PRESSURE					
Series	Test Set Pressure psig (bar)	Min Resealing Pressure as a Percentage of set pressure, %			
II COOLID	100 - 200 (6.8 to 13.7)	50			
H-900HP	850 - 1000 (58.5 to 68.9)	84			

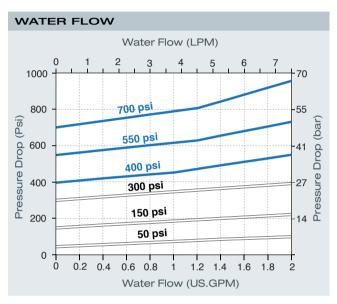
FLOW DATA AT 70°F (20°C)

Orifice in fully open mode is 3.6mm (0.14 inch)



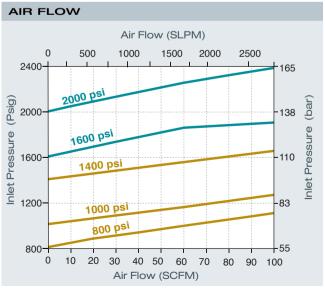


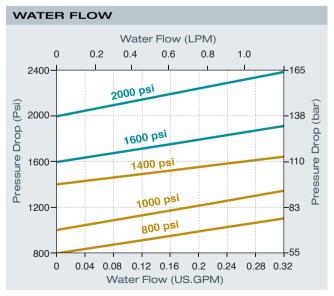










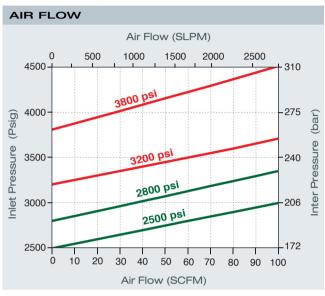


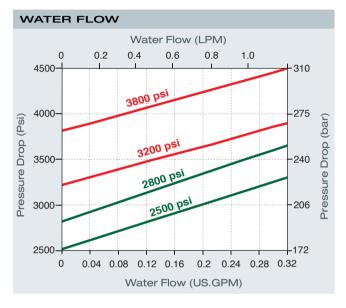
FLOW DATA AT 70°F (20°C)

Orifice in fully open mode is 3.6mm (0.14 inch)



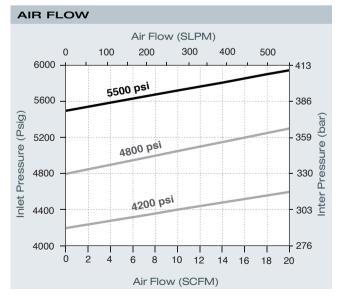


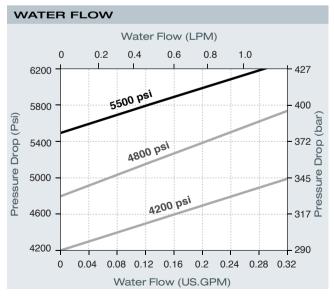




G SPRING 4000-5000psig







APPLICATIONS

H-900HP 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).

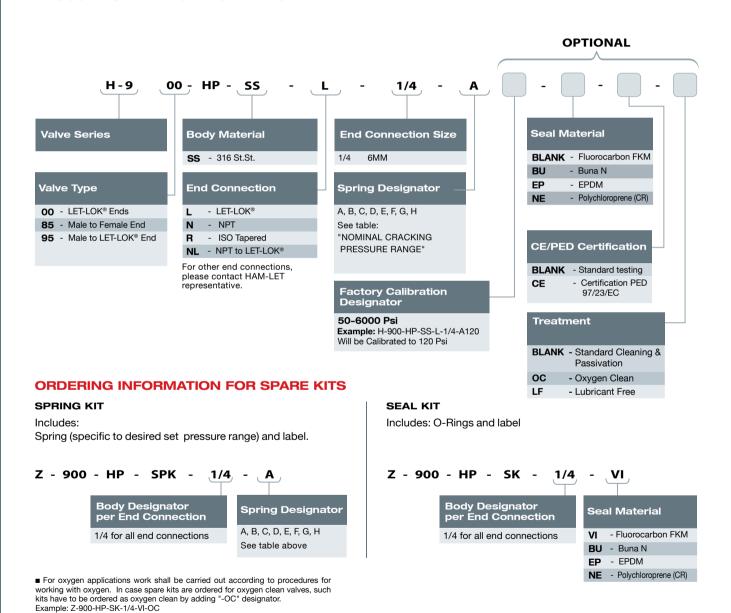
OPERATION

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

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 for meeting specific safety codes and which valves conform to such codes.

H-900HP ORDERING INFORMATION



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.

H-900HP, Rev.10, January 2015