





## **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<sup>®</sup> connections
- Option to comply with standards CE/PED
- End connections: 1/4",1/2",6mm and 12mm
- \* Maximum Allowable Working Pressure.

# 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.



# PRESSURE TEMPERATURE RATING

Series	H-900 Body Size: 1/4"& 1/2"						
Seal Material	Fluorocarbon FKM	Buna N	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)				
10 (50)	005 (15 5)	225 (15.5)	225 (15.5)				
65 (150)	225 (15.5)						
93 (200)							
121 (250)							
135 (275)							
148 (300)	-						



## **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.

# STANDARD CONFIGURATION DIMENSIONS

## 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.

	Description	Connection / size		Orifico*		Dimensions									
		Inlet	Outlet	Onnce		А		В		С		D			
		Inter		mm	inch	mm	inch	mm	inch	mm	inch	mm	incl		
	H-900	1/4 LET-LOK	1/4 LET-LOK	4.8	4.0.0.10	37	1.45	39	1.53	50	1.97	96	3.78		
	H-900	6MM LET-LOK	6MM LET-LOK			37	1.45	39	1.53	50	1.97	96	3.78		
	H-985	1/4 Male NPT	1/4 Female NPT		4.8	4.0	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	6.4 0.25	46.5	1.83	46.5	1.83	59.2	2.33	150	5.92		
	H-900	12MM LET-LOK	12MM LET-LOK			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			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 RE-SEAL 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				
	175 - 225 (12.0 to 15.5)	90				



## **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).

## **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.





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

## 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



H-900 | 2020\_Rev00



