

INDUSTRIAL EXCESS FLOW VALVES

H-911 SERIES



FEATURES

- Stainless Steel Construction
- MAWP 6000 psi (413 bar)
- MAWT 400°F (204°C)
- Variable connection sizes (1/8 to 1/2" & 6 to 12mm)
- Cv = 0.5 ; 1.1
- Safety System Shutoff Device

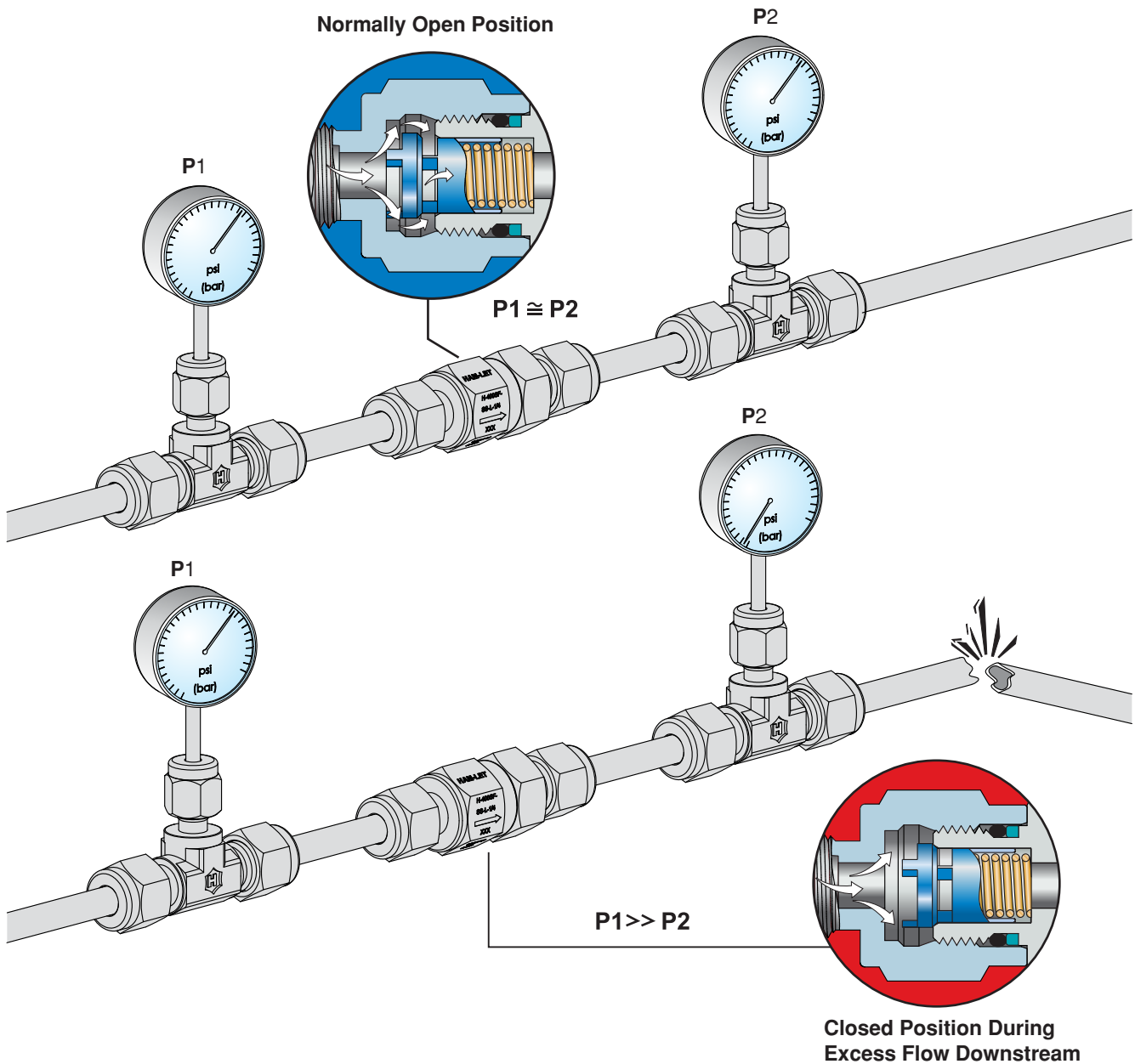
GENERAL

1. The poppet is loaded by a spring in a normally open position as long as the system is balanced.
2. If the system becomes unbalanced and the downstream pressure drops, the poppet moves towards the sealing area and prevents free, uncontrolled excess flow from the line.
3. If the downstream pressure increases, the ventilation outlet ("bleeding") enables the system to balance the pressures and (with the help of the spring) to reset the system. In this situation, the poppet reverts back to Normally Open.

Excellent for Automatic Safety Shutoff in a wide range of areas:

- Fuel systems
- Toxic Media Systems
- Gas Systems
- Valued Media Systems
- Hydraulic & Pneumatic Systems.

OPERATING PRINCIPLE



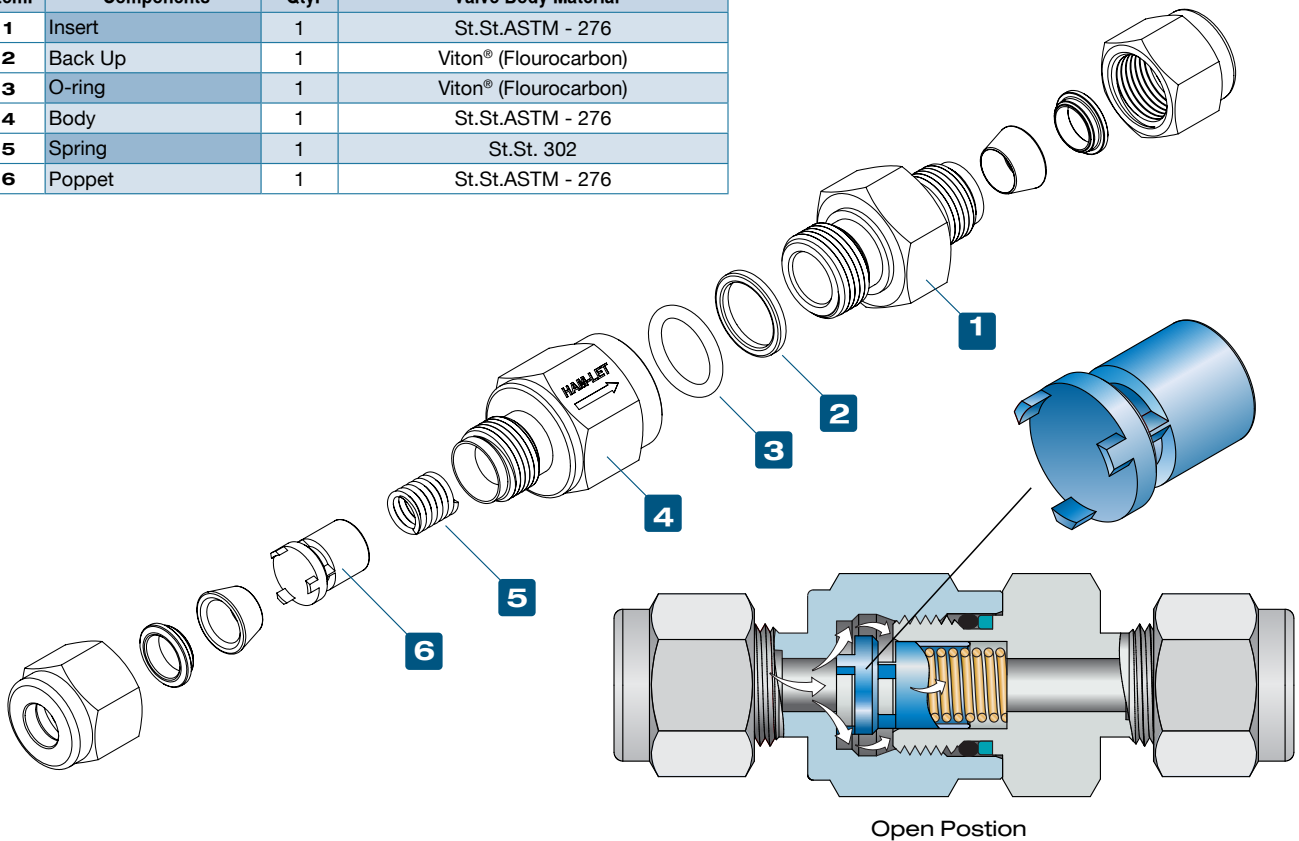
CLEANING & PACKAGING

HAM-LET H-911 Valves are treated for Passivation, Cleaning and Packaging (Procedure 8075). Oxygen Cleaning and Packaging (Procedure 8055) is available as an option.

TESTING

The design of the H-911 Valves has been tested for Proof and Burst. Every assembled valve is tested for proper functionality.

MATERIALS OF CONSTRUCTION			
Item.	Components	Qty.	Valve Body Material
1	Insert	1	St.St.ASTM - 276
2	Back Up	1	Viton® (Flourocarbon)
3	O-ring	1	Viton® (Flourocarbon)
4	Body	1	St.St.ASTM - 276
5	Spring	1	St.St. 302
6	Poppet	1	St.St.ASTM - 276



5 Spring

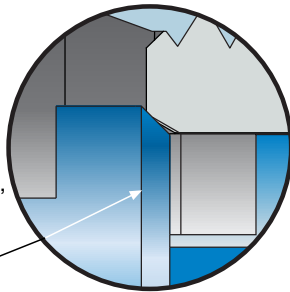
Resets the system back to normally open position when the downstream pressure equalizes the upstream pressure.

6 Poppet

- Produced from stainless steel.
- Enables high flow rates.
- Improves reliability and performance.

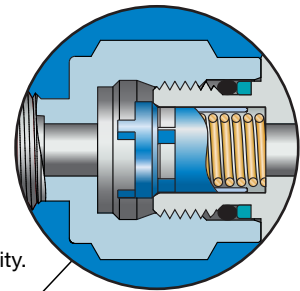
Vent "Bleeding"

Enables "information transfer" between the two sides of the valve, and automatically resets the system.



Metal Sealing

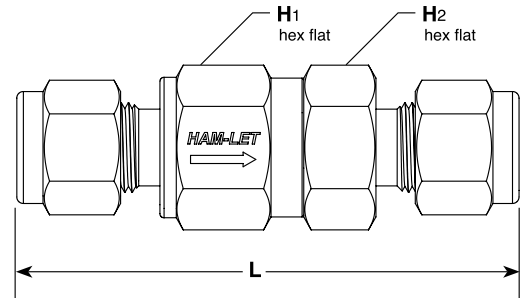
Improves stability and repeatability. Does not need maintenance.



Closed Position

PRESSURE TEMPERATURE RANGES

- The estimate refers to O-Rings and back up made from Viton®.
- For O-Rings made from other materials see ordering information.
- 5000 psi (344 bar) for the H-911 Series with end connections 3/8 NPT female.
- 4600 psi (316 bar) for the H-911 Series with end connection 1/2 NPT female.



PRESSURE TEMPERATURE RANGES	
Material Name	316 St.St.
Temperature F° (C°)	Working Pressure, psi (bar)
-10 (-23) to 100 (37)	6000 (413)
200 (93)	5160 (355)
250 (121)	4910 (338)
300 (148)	4660 (321)
400 (204)	4280 (294)

PRESSURE TEMPERATURE RANGES	
O-ring Material	Temperature Rating F° (C°)
Viton®	-15° to 400 (-26 to 204)
Buna-N	-40° to 250 (-40 to 121)
Ethylene propylene	-50° to 300 (-45 to 148)
Perfloor	-10° to 400 (-23 to 204)
Neoprene	-40° to 250 (-40 to 121)

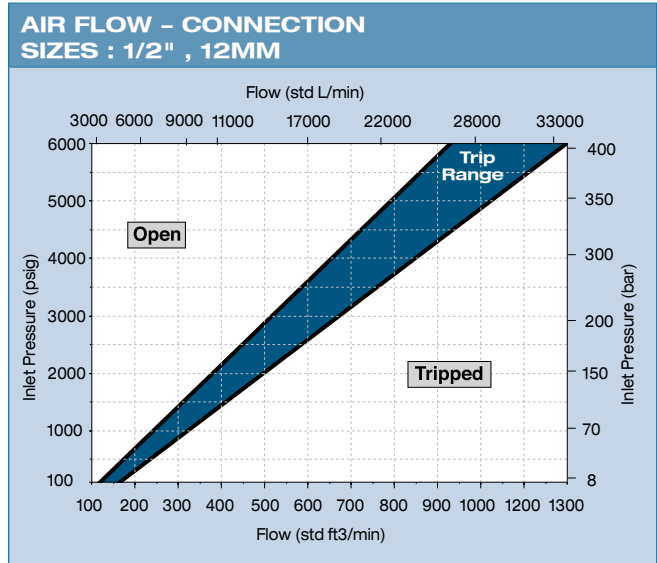
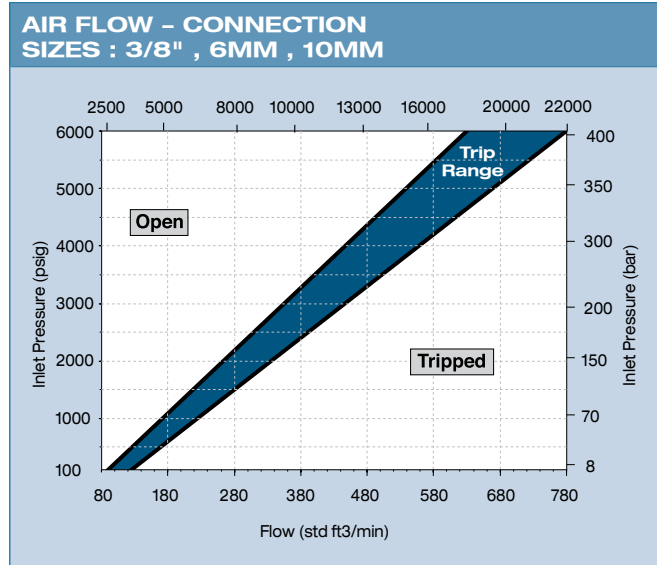
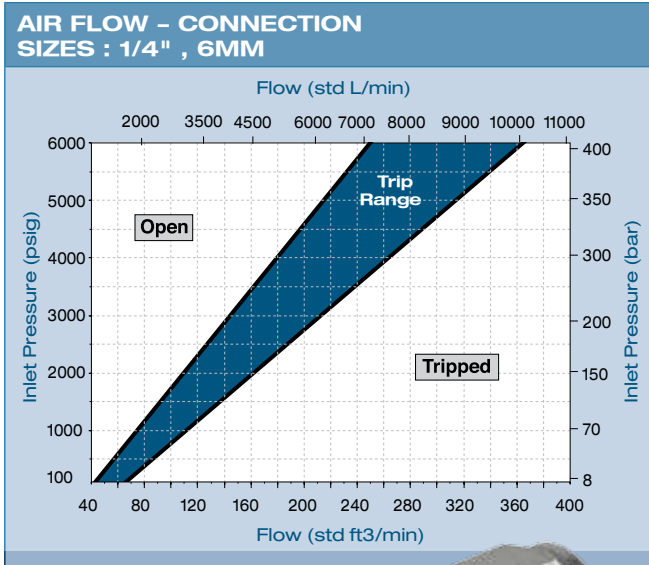
Viton® O-Rings are standard.
 For other O-Ring materials, see ordering information.
 For O-Ring materials that are not in this table, please consult HAM-LET.

STANDARD CONFIGURATION DIMENSIONS				
End Connection		Dimensions: inch (mm)		
Type	Size	L	H1	H2
LET-LOK® Tube Fittings	1/4"	2.43 (61.7)	11/16	11/16
	3/8"	2.75 (69.9)	1	1
	1/2"	2.97 (75.4)	1	1
	6 mm	2.43 (61.7)	11/16	11/16
	8 mm	2.70 (68.6)	1	1
	10 mm	2.80 (71.1)	1	1
Female NPT	1/8"	1.87 (47.5)	11/16	11/16
	1/4"	2.12 (53.8)	1	1
	3/8"	2.55 (64.8)	1	1
	1/2"	3.03 (77.0)	1 1/16	1 1/16
Male NPT	1/8"	1.79 (45.5)	11/16	11/16
	1/4"	2.17 (55.1)	1	1
	3/8"	2.36 (59.9)	1	1
	1/2"	2.73 (69.3)	1	1
Male NPT to LET-LOK® Tube Fittings	1/4"	2.30 (58.4)	11/16	11/16
	3/8"	2.56 (65.0)	1	1
	1/2"	2.85 (72.4)	1	1
Male to Female NPT	1/4"	2.13 (54.1)	11/16	11/16
	3/8"	2.46 (62.5)	1	1
	1/2"	2.89 (73.4)	1	1 1/16
Male BSPT	1/4"	2.17 (55.0)	11/16	11/16
	1/2"	2.74 (69.5)	1	1
Female BSPT	1/2"	3.29 (83.5)	1 1/16	1 1/16
Male SAE/MS	1/2"	2.48 (63.0)	1	1
Female SAE/MS	1/2"	2.74 (69.5)	1	1
Male Face Seal	1/4"	2.28 (57.9)	11/16	11/16
	1/2"	2.73 (69.3)	1	1
Male O-Ring Face seal	1/4"	1.89 (50.3)	11/16	11/16
	1/2"	2.36 (59.9)	1	1

Dimensions are for reference only, and are subject to change.

FLOW DATA AT 70°F (20°C)

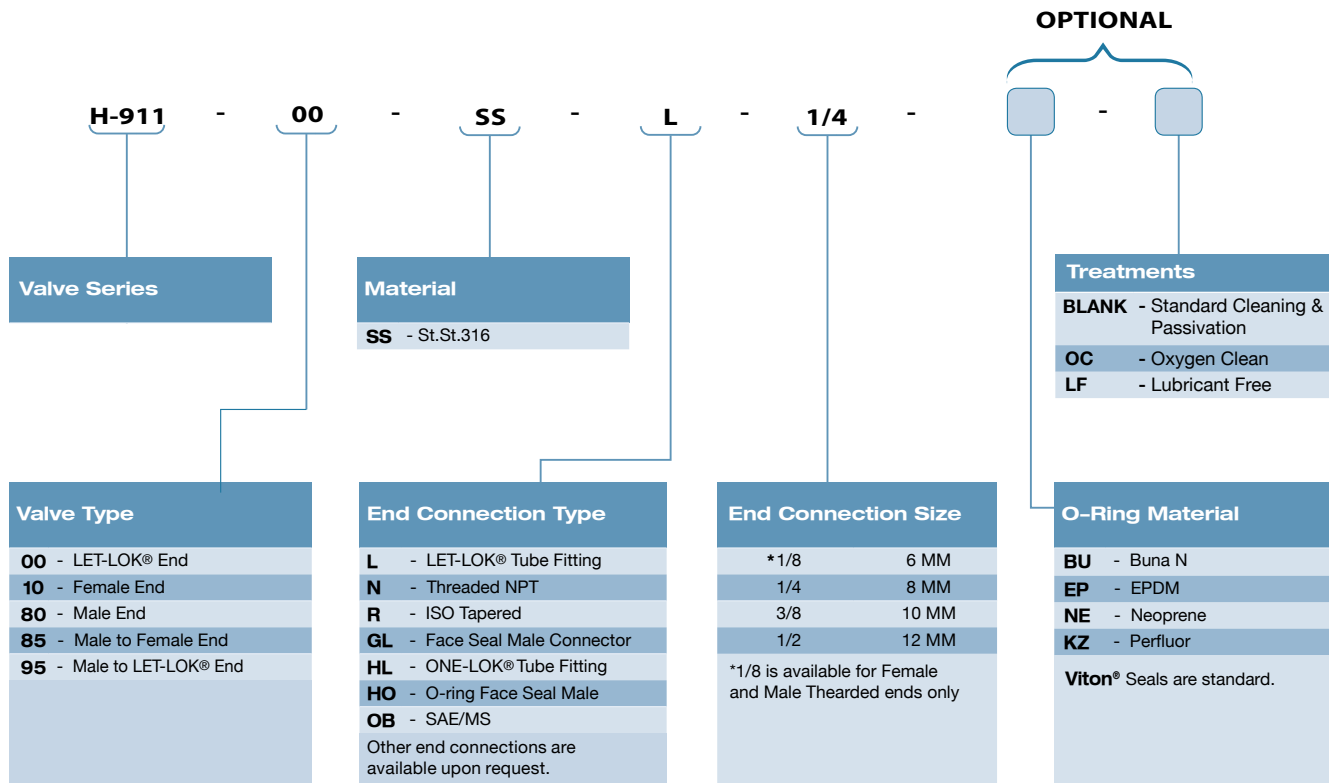
For springs with other trip ranges, consult Ham-Let representative.



WATER FLOW

Connection Size	CV	Trip Range U.S. gal/min (L/min)
1/8, 1/4, 6mm	0.5	3.9 to 5.8 (14.7 to 21.9)
3/8, 8mm, 10mm	1.1	8.2 to 10.0 (31.0 to 37.9)
1/2, 12mm		11.2 to 14.9 (42.4 to 56.4)

H-911 SERIES ORDERING INFORMATION



Warning Select the right component for safety's sake: The total design of the system must be taken into consideration when selecting components in order to ensure that your HAM-LET products provide safe, trouble-free operation. It is the responsibility of the system designer and the user to consider the compatibility of the materials, of the components and system, the function of the component, appropriate ratings and to ensure proper installation, operation and maintenance. Improper selection or use of products can cause property damage or personal injury, in respect of which the system designer and/or the user shall be solely liable and responsible.